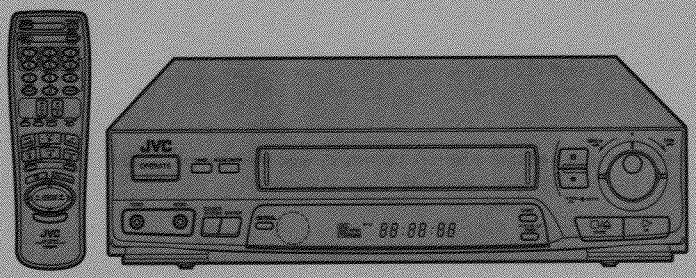
JVC

SERVICE MANUAL

VIDEO CASSETTE RECORDER

HR-J439EE/E539EE



VHS
PAL NTSC

Regarding service information other than these sections, refer to the HR-E639EE service manual (No. 82567).
Also, be sure to note important safety precautions provided in the service manual.

SPECIFICATIONS *(The specifications shown pertain specifically to the model HR-J439EE)*

GENERAL

Power requirement	
Rating	: AC 110 – 240 V∿, 50/60 Hz
Operating	: AC 90 – 260 V∿, 50/60 Hz
Power consumption	: 20 W
Temperature	
Operating	: 5°C to 40°C
Storage	: –20°C to 60°C
Operating position	: Horizontal only
Dimensions (WxHxD)	: 400 x 94 x 340 mm
Weight	: 4.3 kg
Format	: VHS standard
Maximum recording time	
(SP)	: 240 min. with E-240 video cassette (PAL/MESECAM) : 160 min. with T-160 video cassette (NTSC)
(LP)	: 480 min. with E-240 video cassette (PAL/MESECAM)
(EP)	: 480 min. with T-160 video cassette (NTSC)

VIDEO/AUDIO

Signal system	: PAL-type colour signal and CCIR monochrome signal,625 lines 50 fields : NTSC colour and EIA monochrome signals, 525 lines/60 fields
Recording system	: DA-4 (Double Azimuth) head helical scan system
Signal-to-noise ratio	: 45 dB
Horizontal resolution	: 250 lines (PAL/MESECAM) : 220 lines (NTSC)
Frequency range	: 70 Hz to 10,000 Hz
Input/Output	: RCA connectors (IN x 2, OUT x 1)

TUNER/TIMER

TV channel storage capacity	: 48 positions (+AUX position "AU")
Tuning system	: Voltage synthesized tuner
Channel coverage	: VHF (Low) 42 – 153MHz (High)153 – 470MHz UHF 470 – 870MHz
Aerial output	: UHF channels (Adjustable E32 – E40)
Memory backup time	: Approx. 18 hours.

ACCESSORIES

Provided accessories	: RF cable, Infrared remote control unit, "R6/UM-3" battery x 2

Specifications shown are for SP mode unless otherwise specified.
Design and specifications subject to change without notice.

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No. 82572
November 1996

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The following table indicate different points between models HR-E639EE, HR-E539EE and HR-J439EE.

ITEM \ MODEL	HR-E639EE	HR-E539EE	HR-J439EE
HiFi-AUDIO	○	—	—
SIDE PANEL	○	○	—
WIDE QUALITY BUTTON	○	—	—
RENTAL RETURN BUTTON	○	—	—

Note : • Mark ○ is used. • Mark — is not used.

The following table indicate different parts number between models HR-E639EE, HR-J439EE and HR-E539EE.

PACKING AND ACCESSORY ASSEMBLY<M1>

REF.NO.	ITEM \ MODEL	HR-E639EE	HR-E539EE	HR-J439EE
101	PACKING CASE	PQ35361-17	PQ35361-18	PQ35532-61
102	CUSHION ASSEMBLY	PQ35362A-1	←	PQ35533A-2
103	POLY(FOAM)BAG	PQM30021-95	←	PQM30021-93
⚠ 110	INSTRUCTIONS	PU30425-1824	←	PU30425-1948
		PU30425-1825	←	PU30425-1954

CABINET AND CHASSIS ASSEMBLY <M2>

REF.NO.	ITEM \ MODEL	HR-E639EE	HR-E539EE	HR-J439EE
150	FRONT PANEL ASSEMBLY	PQ11802AP	PQ11802AQ	PQ11906W
150A	CASSETTE DOOR	PQ21818-22	PQ21818-30	PQ21915-16
⚠ 151	TOP COVER	PQ11676-31	←	PQ11676-7
152	SCREW,X4 TOP COVER(SIDE)	PQ43930	←	SDSF3010M
154	KNOB(JOG)	PQ35247-5	←	PQ35472
155	KNOB(SHUTTLE)	PQ35295-5	←	PQ35471

REF.NO.	ITEM / MODEL	HR-E639EE	HR-E539EE	HR-J439EE
159A	DRUM SUB ASSEMBLY	PDM2261AC	PDM2282K	←
159B	UPPER DRUM ASSEMBLY	PDM3353AW	PDM3403K	←
159K	WASHER	PDM4050-9	PDM4050-10	←
WR2	WIRE,SW/JACK	PW30803-0514	PW30802-0714	←

MECHANISM ASSEMBLY<M4>

REF.NO.	ITEM / MODEL	HR-E639EE	HR-E539EE	HR-J439EE
85	CLEANER ASSEMBLY	—	PQ46436A-1	←
85A	CLEANER ROLLER	—	PQ46418-1-2	←
85B	CLEANER	—	PQ46419-1-2	←
85C	CLEANER ARM	—	PQ35159-1-1	←

MAIN BOARD ASSEMBLY <03>

REF.NO.	ITEM / MODEL	HR-E639EE	HR-E539EE	HR-J439EE
PW1	MAIN BOARD ASSEMBLY	PB11003M	PB11003N	←
IC401	IC	JCP0056	—	—
IC402	IC	BA6138	—	—
IC501	IC	LA7257	—	—
IC701	QFD IC(MCU)	HD6433928TA49F	HD6433928TA44F	←
Q4	TRANSISTOR	2SA1576(QRS)	—	—
Q5	TRANSISTOR	2SA1576(QRS)	—	—
Q301	TRANSISTOR	—	DTC114EU	←
Q302	TRANSISTOR	—	DTA144WU	←
Q303	TRANSISTOR	—	DTC114TU	←
Q503	TRANSISTOR	2SC4081(QRS)	—	—
D13	DIODE	1SS133	—	—
D14	DIODE	1SS133	—	—
D153	DIODE	—	1N4148M	←
D461	DIODE	1N4148M	—	—
D502	DIODE	1N4148M	—	—
D503	DIODE	1N4148M	—	—
D504	DIODE	1N4148M	—	—
D505	DIODE	1N4148M	—	—
D952	FR DIODE	FML-12S	—	—
D954	BARRIER DIODE	FMB-24	—	—
D972	FR DIODE	—	AU01Z	←
D973	FR DIODE	—	AU01Z	←
D974	FR DIODE	—	AU01Z	←
D975	FR DIODE	—	AK04	←
R15	RESISTOR	QRSA08J-392YN	—	—
R16	RESISTOR	QRSA08J-272YN	—	—
R23	RESISTOR	QRSA08J-683YN	—	—

Notes : • Mark — is not used.
• Mark ← is same as left.

REF.NO.	ITEM / MODEL	HR-E639EE	HR-E539EE	HR-J439EE
R24	RESISTOR	QRSA08J-223YN	—	—
R25	RESISTOR	QRSA08J-102YN	—	—
R26	RESISTOR	QRSA08J-473YN	—	—
R27	RESISTOR	QRSA08J-333YN	—	—
R28	RESISTOR	QRSA08J-560YN	—	—
R41	RESISTOR	QRSA08J-200YN	QRSA08J-0R0Y	←
R213	RESISTOR	QRSA08J-0R0Y	QRSA08J-222YN	←
R285	RESISTOR	QRSA08J-682YN	—	—
R286	RESISTOR	QRSA08J-332YN	—	—
R287	RESISTOR	QRSA08J-682YN	—	—
R288	RESISTOR	QRSA08J-471YN	QRSA08J-0R0Y	←
R289	RESISTOR	QRSA08J-103YN	—	—
R301	RESISTOR	QRSA08J-0R0Y	QRSA08J-221YN	←
R302	RESISTOR	—	QRSA08J-183YN	←
R303	RESISTOR	—	QRSA08J-393YN	←
R337	RESISTOR	QRSA08J-221YN	—	—
R338	RESISTOR	QRSA08J-103YN	—	—
R348	RESISTOR	QRSA08J-101YN	—	—
R401	RESISTOR	QRSA08J-393YN	—	—
R402	RESISTOR	QRSA08J-393YN	—	—
R404	RESISTOR	QRSA08J-183YN	—	—
R405	RESISTOR	QRSA08J-183YN	—	—
R407	RESISTOR	QRSA08J-511YN	—	—
R408	RESISTOR	QRSA08J-472YN	—	—
R409	RESISTOR	QRSA08J-123YN	—	—
R410	RESISTOR	QRSA08J-392YN	—	—
R411	RESISTOR	NRVA62B-153N	—	—
R412	RESISTOR	QRSA08J-682YN	—	—
R415	RESISTOR	QRSA08J-473YN	—	—
R416	RESISTOR	QRSA08J-274YN	—	—
R417	RESISTOR	QRSA08J-222YN	—	—
R418	RESISTOR	NRVA62B-113N	—	—
R419	RESISTOR	QRSA08J-392YN	—	—
R420	RESISTOR	QRSA08J-123YN	—	—
R421	RESISTOR	QRSA08J-472YN	—	—
R422	RESISTOR	QRSA08J-511YN	—	—
R424	RESISTOR	QRSA08J-183YN	—	—
R425	RESISTOR	QRSA08J-183YN	—	—
R427	RESISTOR	QRSA08J-393YN	—	—
R428	RESISTOR	QRSA08J-393YN	—	—
R430	RESISTOR	QRSA08J-222YN	—	—
R432	RESISTOR	QRSA08J-222YN	—	—
R434	RESISTOR	QRSA08J-103YN	—	—
R435	RESISTOR	QRSA08J-183YN	—	—
R436	RESISTOR	QRSA08J-183YN	—	—

REF.NO.	ITEM / MODEL	HR-E639EE	HR-E539EE	HR-J439EE
R437	RESISTOR	QRSA08J-103YN	—	—
R438	RESISTOR	QRSA08J-221YN	—	—
R440	RESISTOR	QRSA08J-102YN	—	—
R441	RESISTOR	QRSA08J-102YN	—	—
R442	RESISTOR	QRSA08J-102YN	—	—
R443	RESISTOR	QRSA08J-271YN	—	—
R461	RESISTOR	QRSA08J-472YN	—	—
R462	RESISTOR	QRSA08J-102YN	—	—
R501	RESISTOR	QRSA08J-271YN	—	—
R502	RESISTOR	QRSA08J-182YN	—	—
R503	RESISTOR	QRSA08J-223YN	—	—
R506	RESISTOR	QRSA08J-122YN	—	—
R507	RESISTOR	QRSA08J-681YN	—	—
R516	RESISTOR	QRSA08J-563YN	—	—
R517	RESISTOR	QRSA08J-562YN	—	—
R518	RESISTOR	QRSA08J-392YN	—	—
R519	RESISTOR	QRSA08J-271YN	—	—
R520	RESISTOR	QRSA08J-473YN	—	—
R521	RESISTOR	QRSA08J-562YN	—	—
R522	RESISTOR	QRSA08J-152YN	—	—
R523	RESISTOR	QRSA08J-104YN	—	—
R524	RESISTOR	QRSA08J-104YN	—	—
R525	RESISTOR	QRSA08J-222YN	—	—
R728	RESISTOR	QRSA08J-472YN	—	—
R751	RESISTOR	QRSA08J-103YN	—	—
R821	RESISTOR	QRSA08J-472YN	—	—
R851	RESISTOR	—	QRSA08J-104YN	←
R853	RESISTOR	—	QRSA08J-104YN	←
R854	RESISTOR	—	QRSA08J-104YN	←
R872	RESISTOR	QRSA08J-472YN	—	—
R970	RESISTOR	QRG01DJ-100X	QRG01DJ-220X	←
R971	RESISTOR	—	QRG01DJ-201X	←
C5	CAPACITOR	QCFA1HZ-103	QCTA1CH-221	←
C27	E CAPACITOR	QEKJ1CM-106	—	—
C49	E CAPACITOR	QEKJ1CM-106	—	—
C50	CAPACITOR	QCYA1HZ-103	—	—
C51	E CAPACITOR	QEKJ1CM-476	—	—
C52	E CAPACITOR	QEKJ1CM-106	—	—
C55	E CAPACITOR	—	QEKJ1CM-106	←
C151	CAPACITOR	—	QCBB1HJ-102	←
C250	CAPACITOR	—	QCYA1HK-103	←
C304	CAPACITOR	QCYA1EK-683	QCYA1EK-333	←
C305	CAPACITOR	—	QCYA1EK-333	←
C328	CAPACITOR	—	QCYA1HK-471	←

Notes : • Mark — is not used.
• Mark ← is same as left.

REF.NO.	ITEM / MODEL	HR-E639EE	HR-E539EE	HR-J439EE
C329	CAPACITOR	—	QCYA1EK-473	←
C351	CAPACITOR	—	QCYA1HK-103	←
C401	E CAPACITOR	QEKJ1CM-106	—	—
C402	E CAPACITOR	QEKJ1CM-106	—	—
C404	E CAPACITOR	QEKJ1CM-336	—	—
C405	CAPACITOR	QCYA1EK-473	—	—
C406	E CAPACITOR	QEKJ1CM-106	—	—
C407	E CAPACITOR	QEKJ0JM-476	—	—
C408	CAPACITOR	QCYA1HK-153	—	—
C409	CAPACITOR	QCYA1HK-103	—	—
C415	CAPACITOR	QCYA1HK-103	—	—
C416	CAPACITOR	QCYA1EK-473	—	—
C417	E CAPACITOR	QETC1HM-224	—	—
C419	CAPACITOR	QCYA1HK-103	—	—
C420	E CAPACITOR	QEKJ0JM-476	—	—
C421	CAPACITOR	QCYA1HK-153	—	—
C422	E CAPACITOR	QEKJ0JM-476	—	—
C423	E CAPACITOR	QEKJ1CM-106	—	—
C424	CAPACITOR	QCYA1EK-473	—	—
C425	E CAPACITOR	QEKJ1CM-336	—	—
C427	E CAPACITOR	QEKJ1CM-106	—	—
C428	E CAPACITOR	QEKJ1CM-106	—	—
C429	E CAPACITOR	QEKJ1CM-106	—	—
C431	E CAPACITOR	QEKJ1CM-476	—	—
C432	E CAPACITOR	QEKJ1HM-105	—	—
C433	E CAPACITOR	QEKJ1CM-106	—	—
C434	E CAPACITOR	QETC1CM-476	—	—
C435	E CAPACITOR	QETC1CM-476	—	—
C436	E CAPACITOR	QETC1CM-476	—	—
C437	E CAPACITOR	QEKJ1CM-106	—	—
C438	E CAPACITOR	QETC1HM-105	—	—
C439	E CAPACITOR	QETC1HM-105	—	—
C440	E CAPACITOR	QEKJ1CM-336	—	—
C441	E CAPACITOR	QEKJ1CM-336	—	—
C443	E CAPACITOR	QEKJ1CM-106	—	—
C461	E CAPACITOR	QEKJ1EM-475	—	—
C501	CAPACITOR	QCYA1HK-103	—	—
C502	CAPACITOR	QCFA1EZ-104	—	—
C503	CAPACITOR	QCYA1HK-103	—	—
C504	CAPACITOR	QCFA1EZ-104	—	—
C505	E CAPACITOR	QEKJ0JM-476	—	—
C506	CAPACITOR	QCYA1EK-104	—	—
C507	CAPACITOR	QCYA1EK-563	—	—
C508	CAPACITOR	QCYA1HK-221	—	—
C509	CAPACITOR	QCYA1HK-102	—	—

REF.NO.	ITEM / MODEL	HR-E639EE	HR-E539EE	HR-J439EE
C510	CAPACITOR	QCYA1HK-103	—	—
C511	CAPACITOR	QCYA1HK-102	—	—
C512	CAPACITOR	QCYA1HK-103	—	—
C513	CAPACITOR	QCTA1CH-331	—	—
C517	CAPACITOR	QCYA1HK-102	—	—
C518	CAPACITOR	QCYA1HK-103	—	—
C519	CAPACITOR	QCYA1EK-223	—	—
C521	CAPACITOR	QCYA1HK-561	—	—
L11	COIL	PELN0975-101JZ	—	—
L213	COIL	—	PELN0530-561JZ	←
L353	BUS WIRE	QWY124	—	—
L354	BUS WIRE	QWY124	—	—
L501	COIL	PELN0530-100JZ	—	—
L502	COIL	PU59152-101J	—	—
J2	PIN JACK(SW),AUDIO IN/OUT R	PEMC1065-02	—	—
WR151	WIRE	—	QWE210-16A1A1	←
TB1	TERMINAL BOARD ASSY	PQ35383B-1	PQ35383P	←
CN1	CONNECTOR,UPPER DRUM	PEMC1163-009	PEMC1163-006	←
CN1403	CONNECTOR,SW/JACK	PEMC1101-005	PEMC1101-007	←

DISPLAY BOARD ASSEMBLY <28>

REF.NO.	ITEM / MODEL	HR-E639EE	HR-E539EE	HR-J439EE
PW1	DISPLAY BOARD ASSEMBLY	PB11028A1	PB11034A1	PB11033B1
IC1201	IC	UPD16311GC(P)	UPD16312GB(P)	←
D1205	DIODE	—	1N4148M	←
D1206	DIODE	1N4148M	RD9.1ES-T1B2	←
D1207	DIODE	1N4148M	—	—
D1209	DIODE	1N4148M	—	—
D1210	DIODE	1N4148M	—	—
D1211	DIODE	RD4.7ES-T1B2	—	—
D1213	LE DIODE,AUTO SP/LP	—	—	SLR-342DC3F
D1220	DIODE	1N4148M	—	—
D1221	DIODE	1N4148M	—	—
D1222	DIODE	—	1N4148M	←
R1201	RESISTOR	QRD161J-333	QRD161J-103	←
R1202	RESISTOR	QRD161J-333	QRD161J-103	←
R1203	RESISTOR	QRD161J-333	QRD161J-103	←
R1204	RESISTOR	QRD161J-333	QRD161J-103	←
R1207	RESISTOR	QRD161J-102	QRD161J-471	←
R1208	RESISTOR	QRD161J-563	QRD161J-103	←
R1209	RESISTOR	QRD161J-103	QRD161J-563	←
R1215	RESISTOR	QRD161J-103	QRD161J-472	←
R1216	RESISTOR	QRD161J-472	QRD161J-103	←

Notes : • Mark — is not used.
• Mark ← is same as left.

REF.NO.	ITEM / MODEL	HR-E639EE	HR-E539EE	HR-J439EE
R1217	RESISTOR	QRD161J-151	—	—
R1219	RESISTOR	QRD161J-103	—	—
R1221	RESISTOR	—	—	QRD161J-331
C1201	E CAPACITOR	QEKC0JM-476	QEKC0JM-227	QETC0JM-227
C1202	CAPACITOR	QCFB1HZ-104	QCFB1HZ-473	←
C1203	E CAPACITOR	QEKC1HM-106	QEKC0JM-227	QETC0JM-227
C1204	CAPACITOR	QCSB1HJ-330	QCSB1HJ-470	←
C1206	E CAPACITOR	QEKC0JM-227	QEKC1HM-106	QETC1HM-106
C1207	CAPACITOR	QCVB1CM-103	QCBB1HJ-102	←
C1210	CAPACITOR	QCFB1HZ-473	—	—
C1211	CAPACITOR	QCFB1HZ-473	—	—
C1213	CAPACITOR	QCFB1HZ-104	—	—
C1221	CAPACITOR	—	QCFB1HZ-104	QCC11CJ-104
C1222	CAPACITOR	—	QCFB1HZ-104	—
C1223	CAPACITOR	—	QCFB1HZ-104	—
S1204	TACT SWITCH,CH SET	—	PESW0525-02Z	←
S1205	TACT SWITCH,PAUSE	PESW0525-02Z	—	—
S1206	TACT SWITCH	PESW0525-02Z, REC	—	PESW0525-02Z, AUTO SP/LP
S1207	TACT SWITCH	PESW0525-02Z, PLAY	PESW0525-02Z, STOP/EJECT	←
S1208	TACT SWITCH	PESW0525-02Z, STOP/EJECT	PESW0525-02Z, PLAY	←
S1213	TACT SWITCH,REVEW	—	—	PESW0525-02Z
S1215	TACT SWITCH,C.RESET	—	PESW0525-02Z	—
S1219	TACT SWITCH,REC	—	PESW0525-02Z	←
S1220	TACT SWITCH,PAUSE	—	PESW0525-02Z	←
S1225	TACT SWITCH,CH SET	PESW0525-02Z	—	—
S1236	TACT SWITCH,RENTAL RET	PESW0525-02Z	—	—
DI1201	FLUORESCENT DISPLAY PANEL	PEDP0160	PEDP0075-03	←
HD1	FDP HOLDER(L),DI1201	PQ34668	PQ34685	←
HD2	FDP HOLDER(R),DI1201	PQ34669	PQ34686	←
HD3	LED HOLDER,D1213	—	—	PQM30038-6
CN1202	CONNECTOR,SW/JACK	PEMC0889-15	PEMC0724-011	PEMC0724-007

REC SAFETY BOARD ASSEMBLY <32>

REF.NO.	ITEM / MODEL	HR-E639EE	HR-E539EE	HR-J439EE
PW3	REC SAEFTY BOARD ASSEMBLY	PB11028A3	PB11034A3	PB11033A3

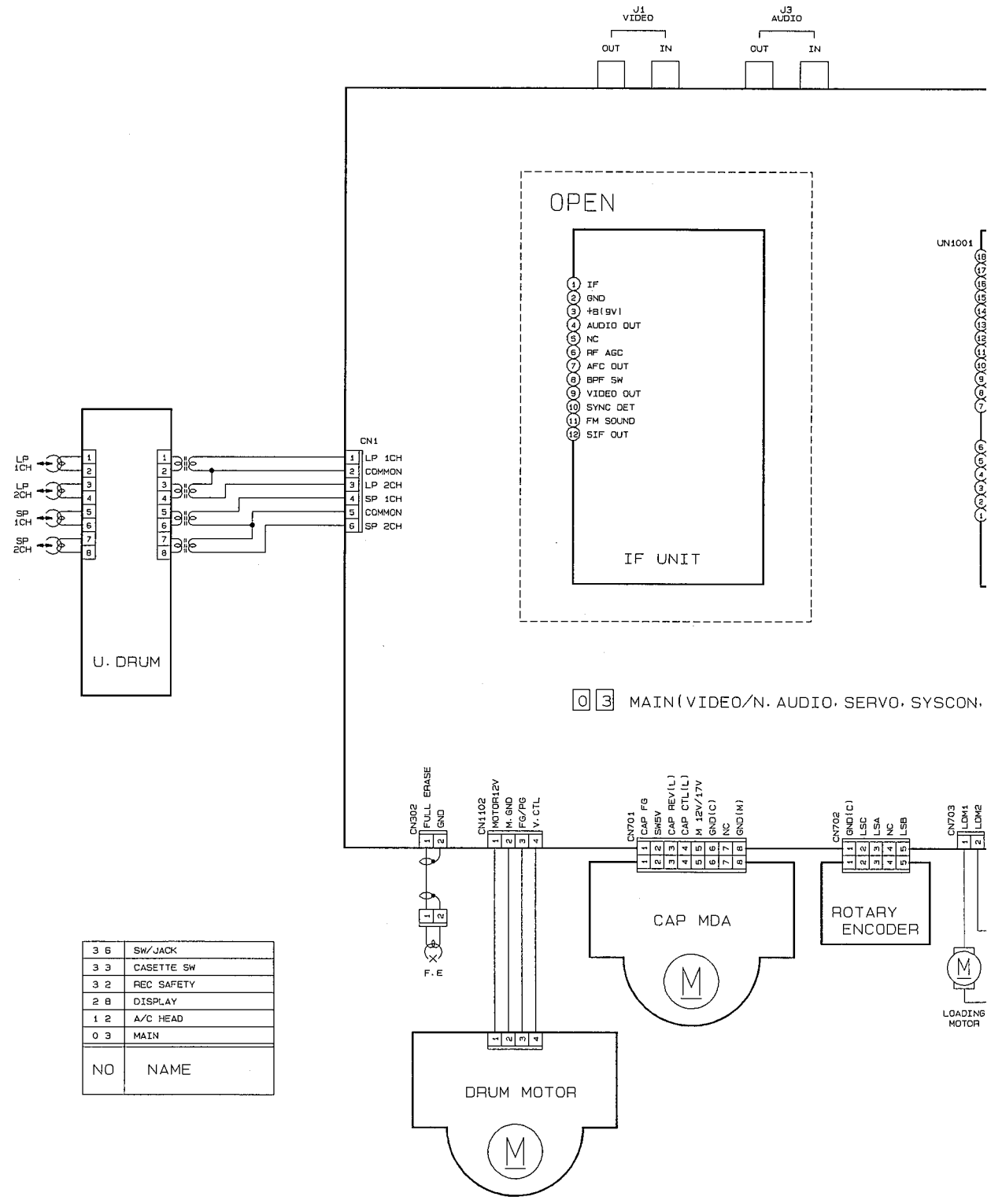
CASSETTE SW BOARD ASSEMBLY <33>

REF.NO.	ITEM / MODEL	HR-E639EE	HR-E539EE	HR-J439EE
PW4	CASSETTE SWITCH BOARD ASSY	PB11028A4	PB11034A4	PB11033A4

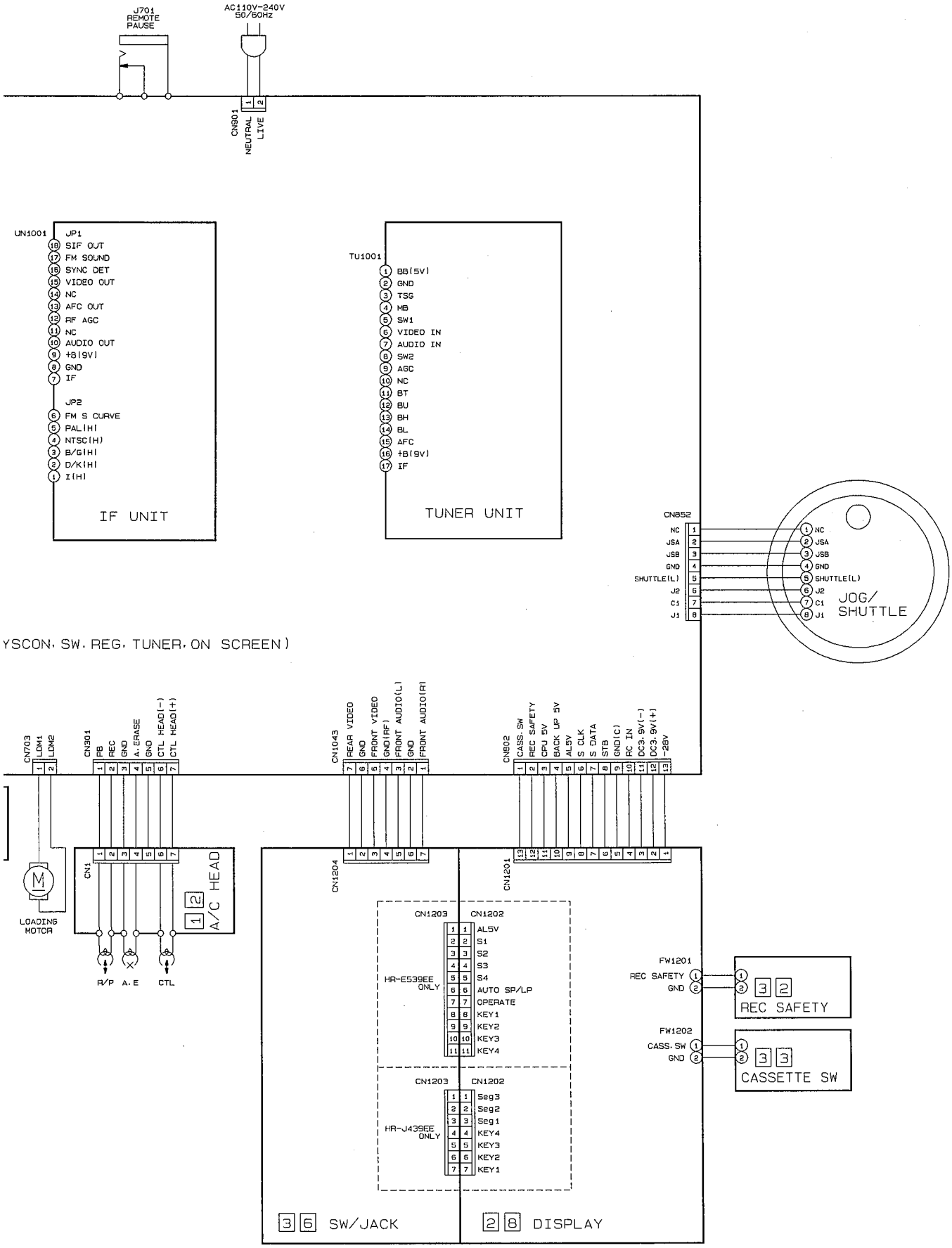
SW/JACK BOARD ASSEMBLY <36>

REF.NO.	ITEM	HR-E639EE	HR-E539EE	HR-J439EE
PW2	SWITCH/JACK BOARD ASSEMBLY	PB11028A2	PB11034A2	PB11033B2
D1212	LE DIODE,OPERATE	SLR-342VC3F	—	—
D1213	LE DIODE	SLR-342MC3F, WIDE QUALITY	SLR-342DC3F, AUTO SP/LP	—
D1214	LE DIODE	SLR-342DC3F, AUTO SP/LP	SLR-342VC3F, OPERATE	—
R1221	RESISTOR	—	QRD161J-331	—
R1223	RESISTOR	—	QRD161J-331	—
R1241	RESISTOR	QRD161J-331	—	—
R1242	RESISTOR	QRD161J-331	—	—
R1243	RESISTOR	QRD161J-331	—	—
L1204	BUS WIRE	QWY124	—	QWY124
L1205	BUS WIRE	QWY124	—	QWY124
L1206	BUS WIRE	QWY124	—	QWY124
S1205	TACT SWITCH,COLOUR SYSTEM	—	PESW0525-02Z	←
S1206	TACT SWITCH,AUTO SP/LP	—	PESW0525-02Z	—
S1209	TACT SWITCH	PESW0525-02Z, COLOUR SYSTEM	—	PESW0525-02Z, INT.PICTUR
S1210	TACT SWITCH	PESW0525-02Z, TIMER	PESW0525-02Z, SCENE FIND	—
S1211	TACT SWITCH,TIMER	—	PESW0525-02Z	←
S1212	TACT SWITCH, SP/LP/EP	—	PESW0525-02Z	←
S1213	TACT SWITCH,REVIEW	PESW0525-02Z	←	—
S1215	TACT SWITCH, SP/LP/EP	PESW0525-02Z	—	—
S1216	TACT SWITCH	PESW0525-02Z AUTO SP/LP	PESW0525-02Z, DISPLAY	—
S1222	TACT SWITCH, AUDIO MONI	PESW0525-02Z	—	—
S1234	TACT SWITCH,WIDE	PESW0525-02Z	—	—
S1240	TACT SWITCH,S.FINDER	PESW0525-02Z	—	—
HD1	LED HOLDER,D1212	PQM30038-6	—	—
HD3	LED HOLDER,D1214	PQM30038-2-2	PQM30038-6	—
J1202	PIN JACK(SW),AUDIO L	PEMC1076	—	—
J1203	PIN JACK(SW)	PEMC1076, AUDIO R	PEMC1076, AUDIO	←
CN1203	CONNECTOR,DISPLAY	PEMC0825-015	PEMC0723-011	PEMC0825-007
CN1204	CONNECTOR,MAIN	PEMC1101-005	PEMC1101-007	←

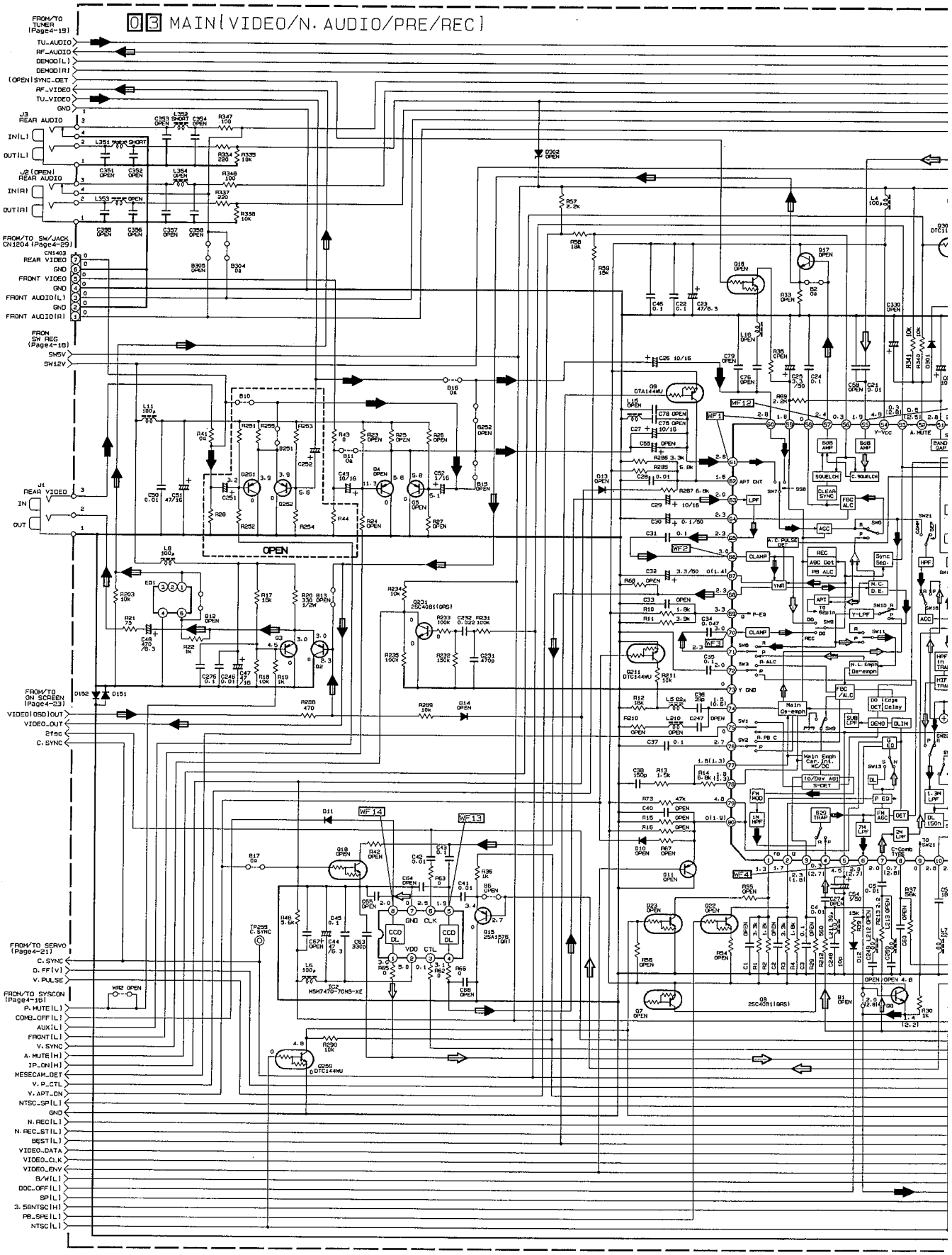
Notes : • Mark — is not used.
• Mark ← is same as left.

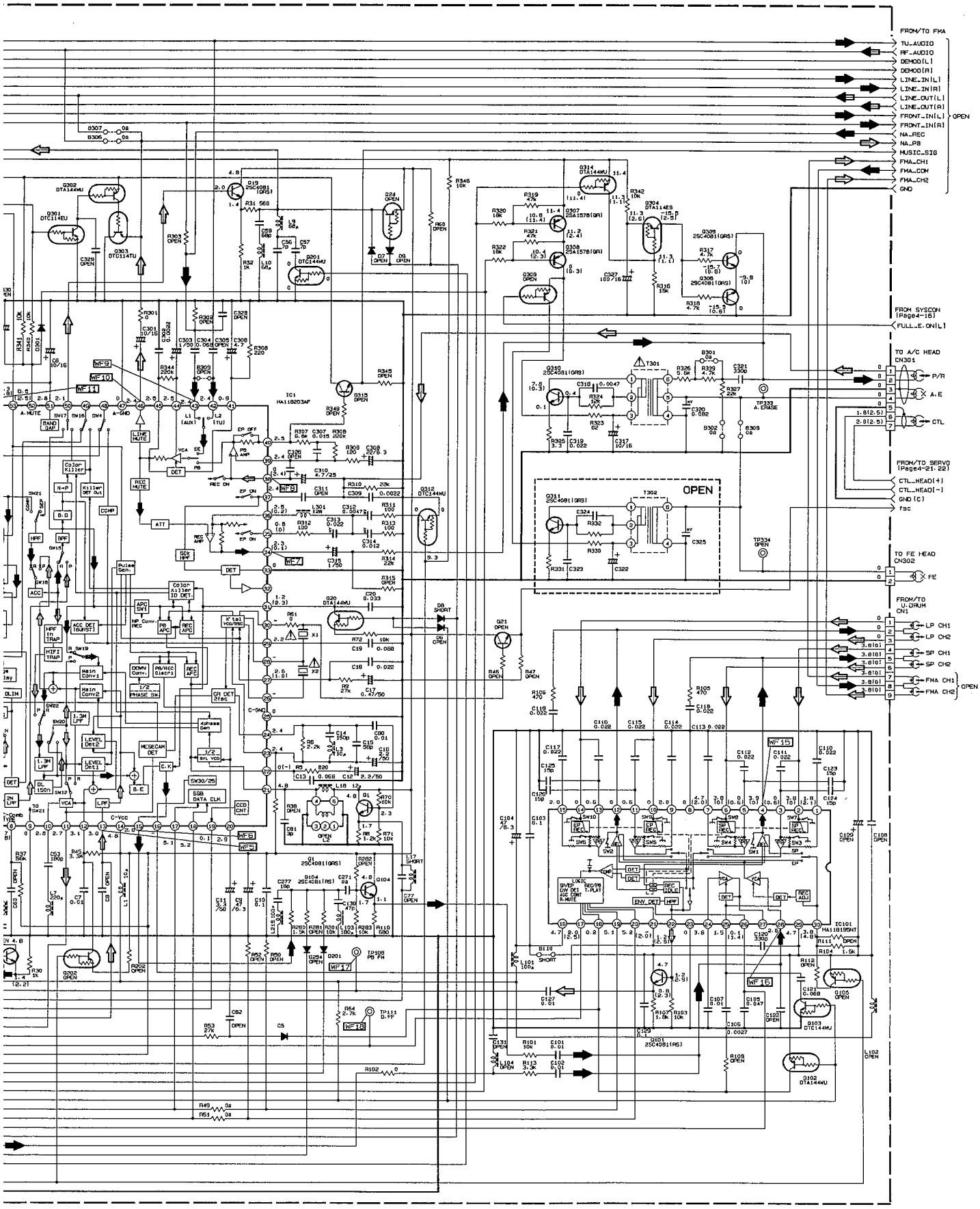

J1
VIDEO
OUT
IN
J3
AUDIO
OUT
IN
OPEN
1 IF
2 GND
3 +B(9V)
4 AUDIO OUT
5 NC
6 RF AGC
7 AFC OUT
8 BPF SW
9 VIDEO OUT
10 SYNC DET
11 FM SOUND
12 SIF OUT
IF UNIT
UN1001
CN1
LP 1CH
COMMON
LP 2CH
SP 1CH
COMMON
SP 2CH
U. DRUM
03 MAIN(VIDEO/N. AUDIO. SERVO. SYSCON.
CN302
FULL ERASE
GND
F.E
CN1102
MOTOR12V
M. GND
FG/PG
V. CTL
DRUM MOTOR
CN701
CAP FG
SWSV
CAP REV(L)
CAP CTL(L)
M 12V/17V
GND(C)
NC
GND(M)
CAP MDA
CN702
GND(C)
LSC
LSA
NC
LSB
ROTARY ENCODER
CN703
LDM1
LDM2
LOADING MOTOR
36 SW/JACK
33 CASETTE SW
32 REC SAFETY
28 DISPLAY
12 A/C HEAD
03 MAIN
NO NAME

ECTION 4
AND DIAGRAMS

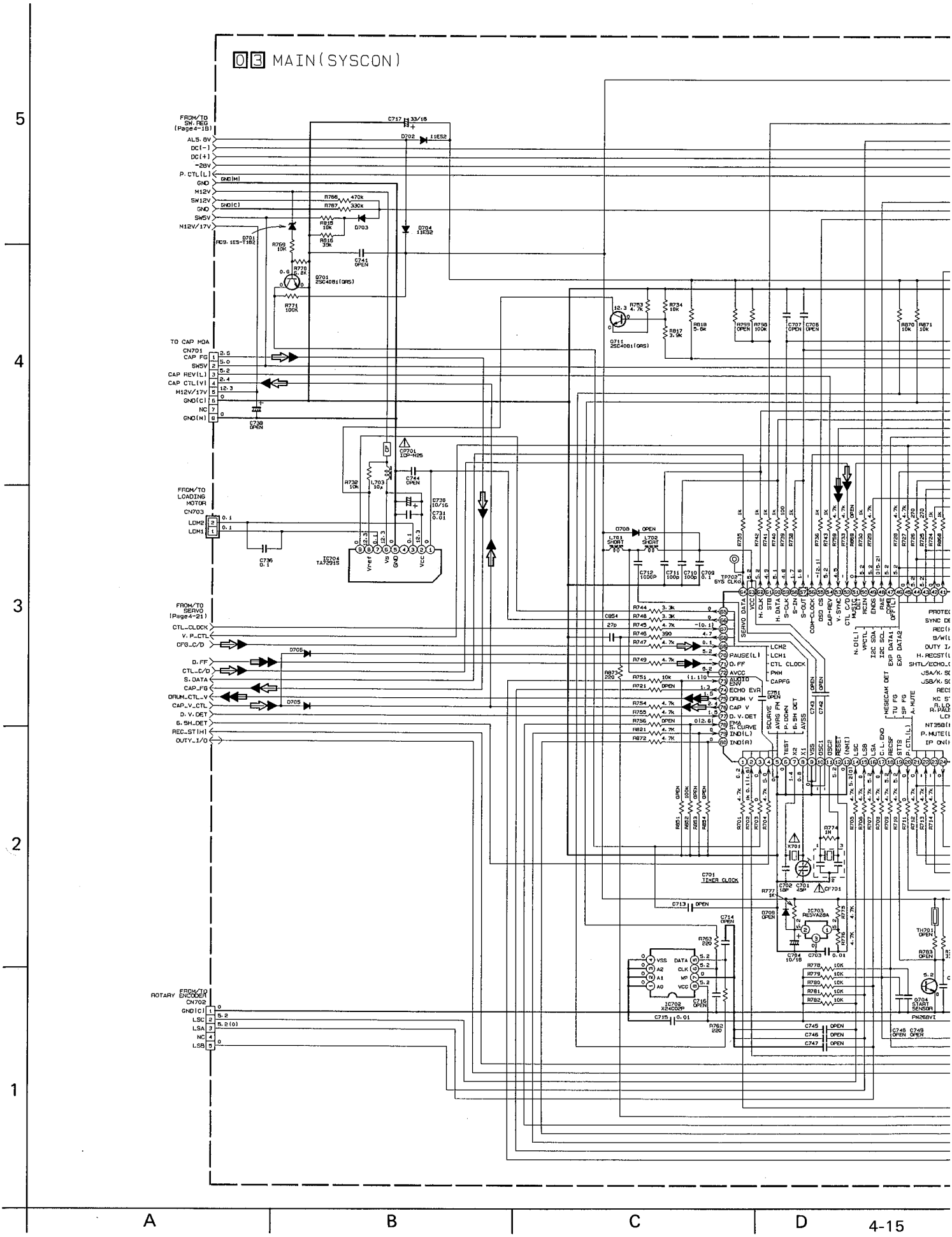


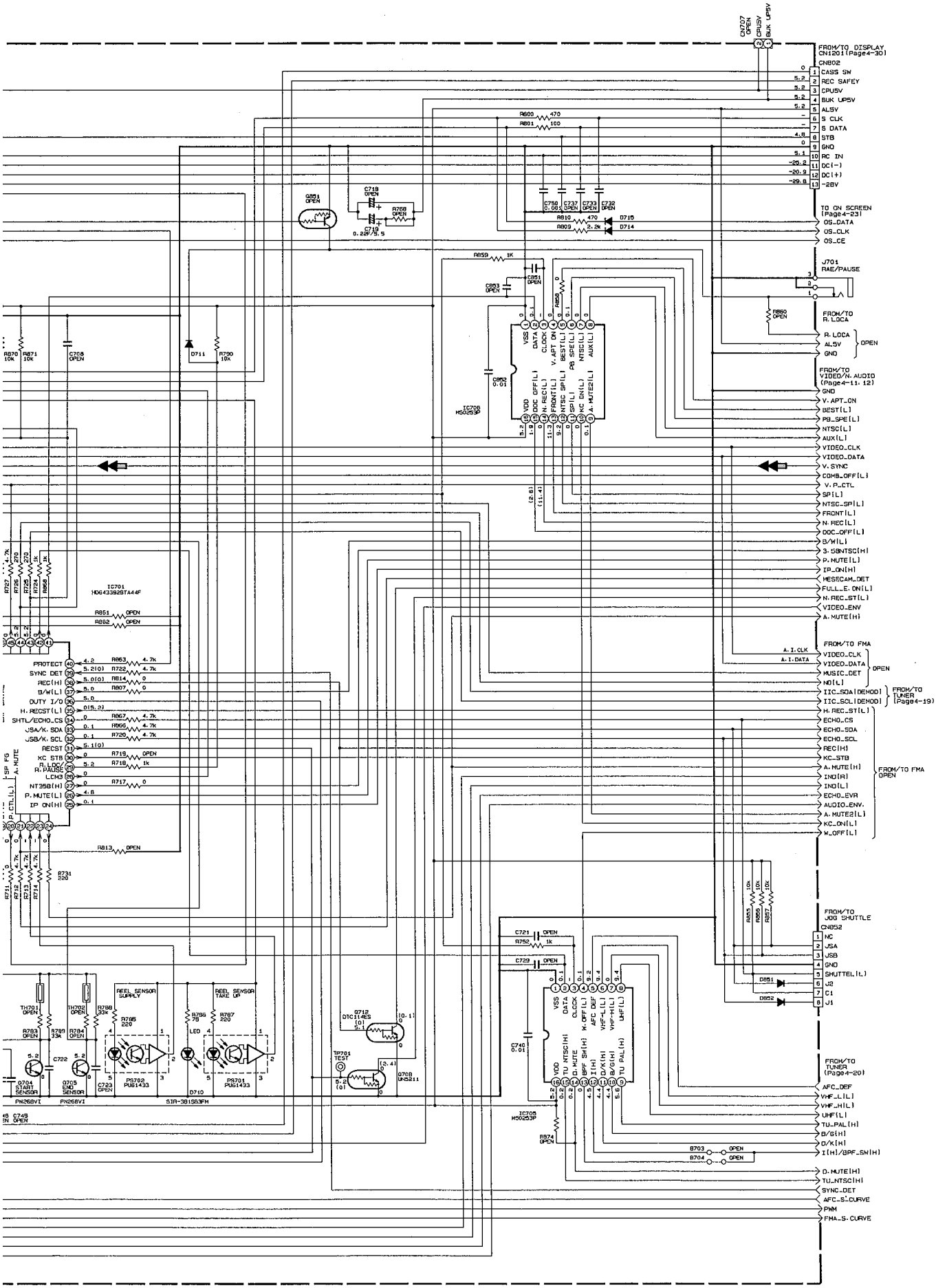
4.5 VIDEO, NORMAL AUDIO AND PRE/REC SCHEMATIC DIAGRAM



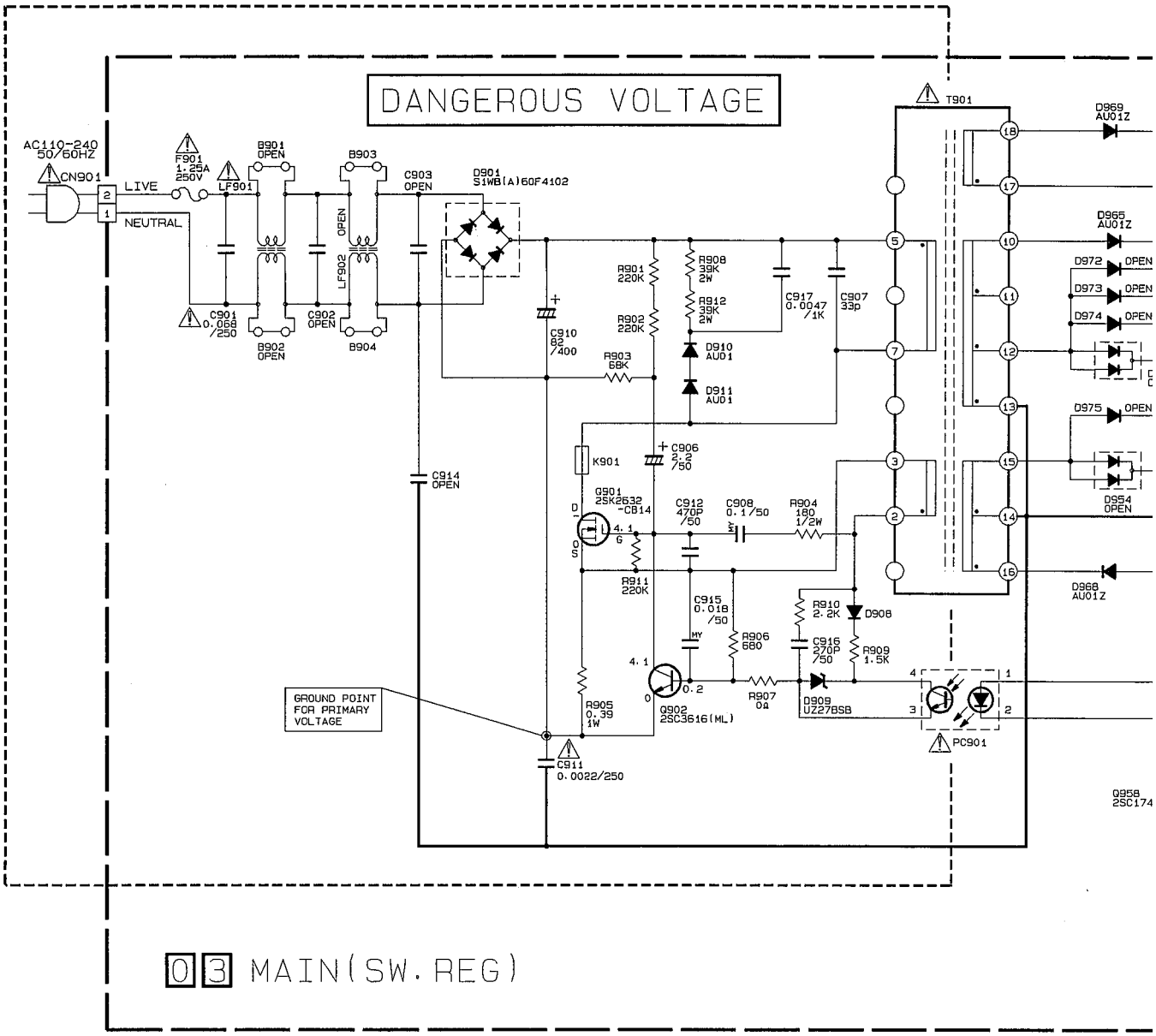

FROM/TO FMA
TU_AUDIO
RF_AUDIO
DEMOD(L)
DEMOD(R)
LINE_IN(L)
LINE_IN(R)
LINE_OUT(L)
LINE_OUT(R)
FRONT_IN(L)
FRONT_IN(R)
NA_REC
NA_PB
MUSIC_SIG
FMA_CH1
FMA_COM
FMA_CH2
GND
OPEN
FROM SYSCON (Page4-16)
FULL_E.ON(L)
TO A/C HEAD CN301
P/R
A.E
CTL
FROM/TO SERVO (Page4-21, 22)
CTL_HEAD(+)
CTL_HEAD(-)
GND(C)
FG
TO FE HEAD CN302
FE
FROM/TO U-DRUM CN1
LP CH1
LP CH2
SP CH1
SP CH2
FMA CH1
FMA CH2
OPEN
NOTE : For VIDEO waveforms, please refer to page4-25.

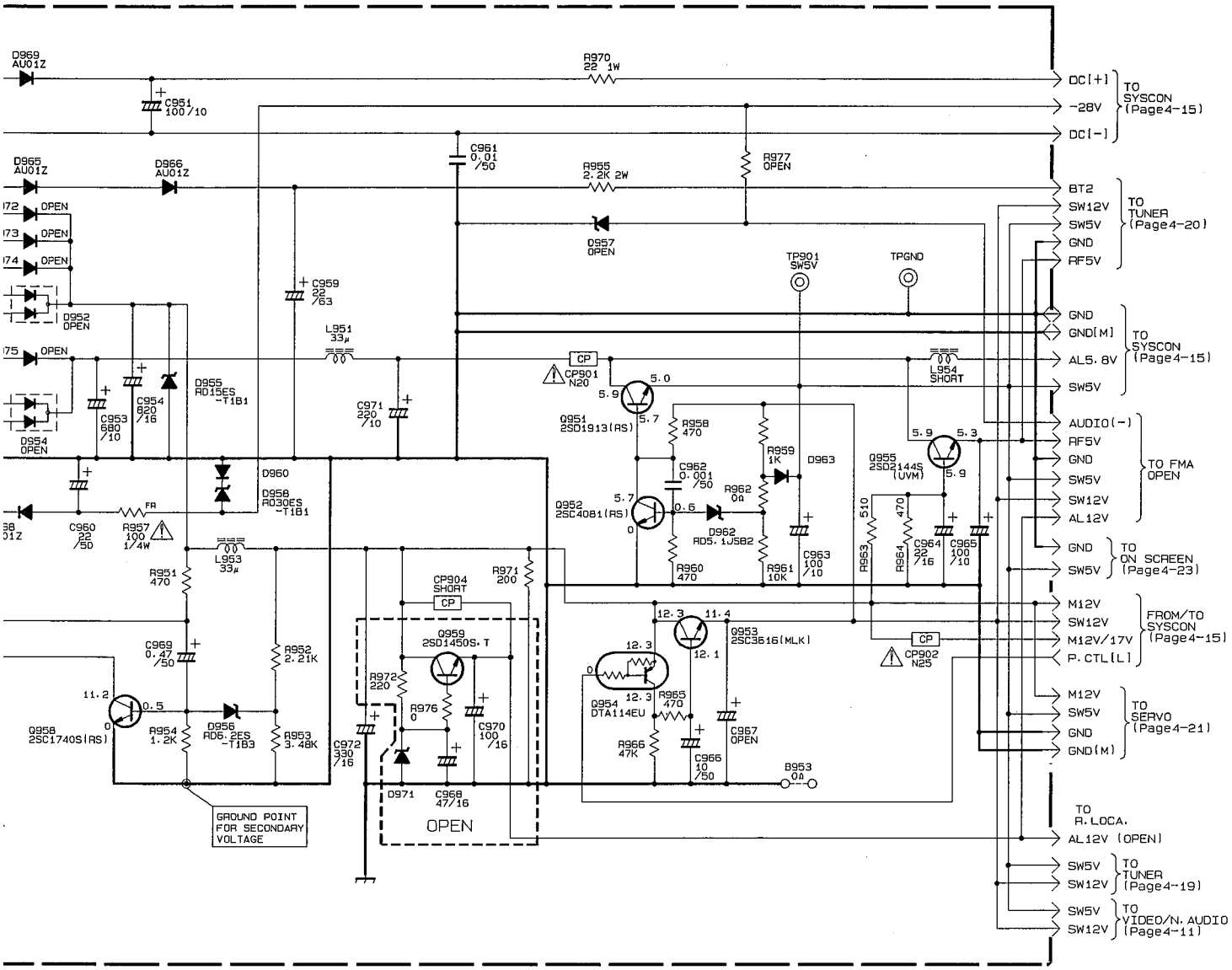
4.7 SYSTEM CONTROL SCHEMATIC DIAGRAM



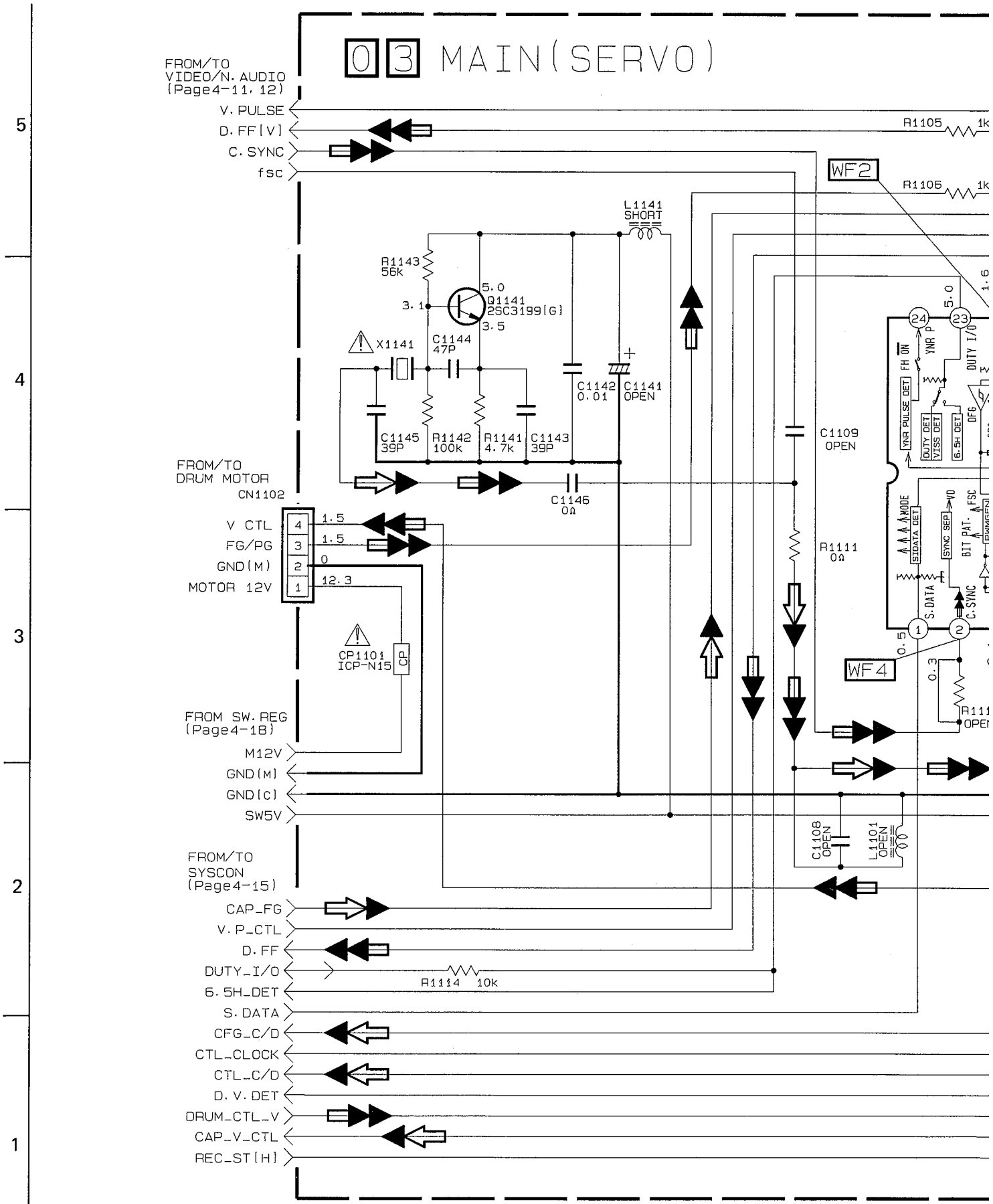

CN707 OPEN
CPU5V
BUK UP5V
FROM/TO DISPLAY CN1201(Page4-30)
CN802
CASS SW
REC SAFEY
CPU5V
BUK UP5V
AL5V
S CLK
S DATA
STB
GND
RC IN
DC(-)
DC(+)
-28V
TO ON SCREEN (Page4-23)
OS_DATA
OS_CLK
OS_CE
J701 RAE/PAUSE
FROM/TO R.LOCA
R.LOCA
AL5V
GND
OPEN
FROM/TO VIDEO/N.AUDIO (Page4-11.12)
GND
V.APT_ON
BEST(L)
PB_SPE(L)
NTSC(L)
AUX(L)
VIDEO_CLK
VIDEO_DATA
V.SYNC
COMB_OFF(L)
V.P_CTL
SP(L)
NTSC_SP(L)
FRONT(L)
N.REC(L)
DOC_OFF(L)
B/W(L)
3.58NTSC(H)
P.MUTE(L)
IP_ON(H)
MESECAM_DET
FULL_E.ON(L)
N.REC_ST(L)
VIDEO_ENV
A.MUTE(H)
FROM/TO FMA
A.I.CLK
A.I.DATA
VIDEO_CLK
VIDEO_DATA
MUSIC_DET
OPEN
HD(L)
IIC_SDA(DEMOD)
IIC_SCL(DEMOD)
FROM/TO TUNER (Page4-19)
H.REC_ST(L)
ECHO_CS
ECHO_SDA
ECHO_SCL
REC(H)
KC_STB
A.MUTE(H)
IND(R)
IND(L)
ECHO_EVR
AUDIO_ENV.
A.MUTE2(L)
KC_ON(L)
W_OFF(L)
FROM/TO FMA OPEN
FROM/TO JOG SHUTTLE
CN852
NC
JSA
JSB
GND
SHUTTEL(L)
J2
C1
J1
FROM/TO TUNER (Page4-20)
AFC_DEF
VHF_L(L)
VHF_H(L)
UHF(L)
TU_PAL(H)
B/G(H)
D/K(H)
I(H)/BPF_SW(H)
D.MUTE(H)
TU_NTSC(H)
SYNC_DET
AFC_S.CURVE
PWM
FMA_S.CURVE
IC701 HD6433928TA44F
IC705 M50253P
REEL SENSOR SUPPLY
REEL SENSOR TAKE UP
PS702 PUB1433
PS701 PUB1433
PN268V1
51A-381S83FM
PROTECT
SYNC DET
REC(H)
B/W(L)
DUTY I/O
H.RECST(L)
SHTL/ECHO_CS
JSA/K.SDA
JSB/K.SCL
RECST
KC STB
R.LOC/R.PAUSE
LCM3
NT358(H)
P.MUTE(L)
IP ON(H)
A.MUTE
SP FG
P.CTL(L)

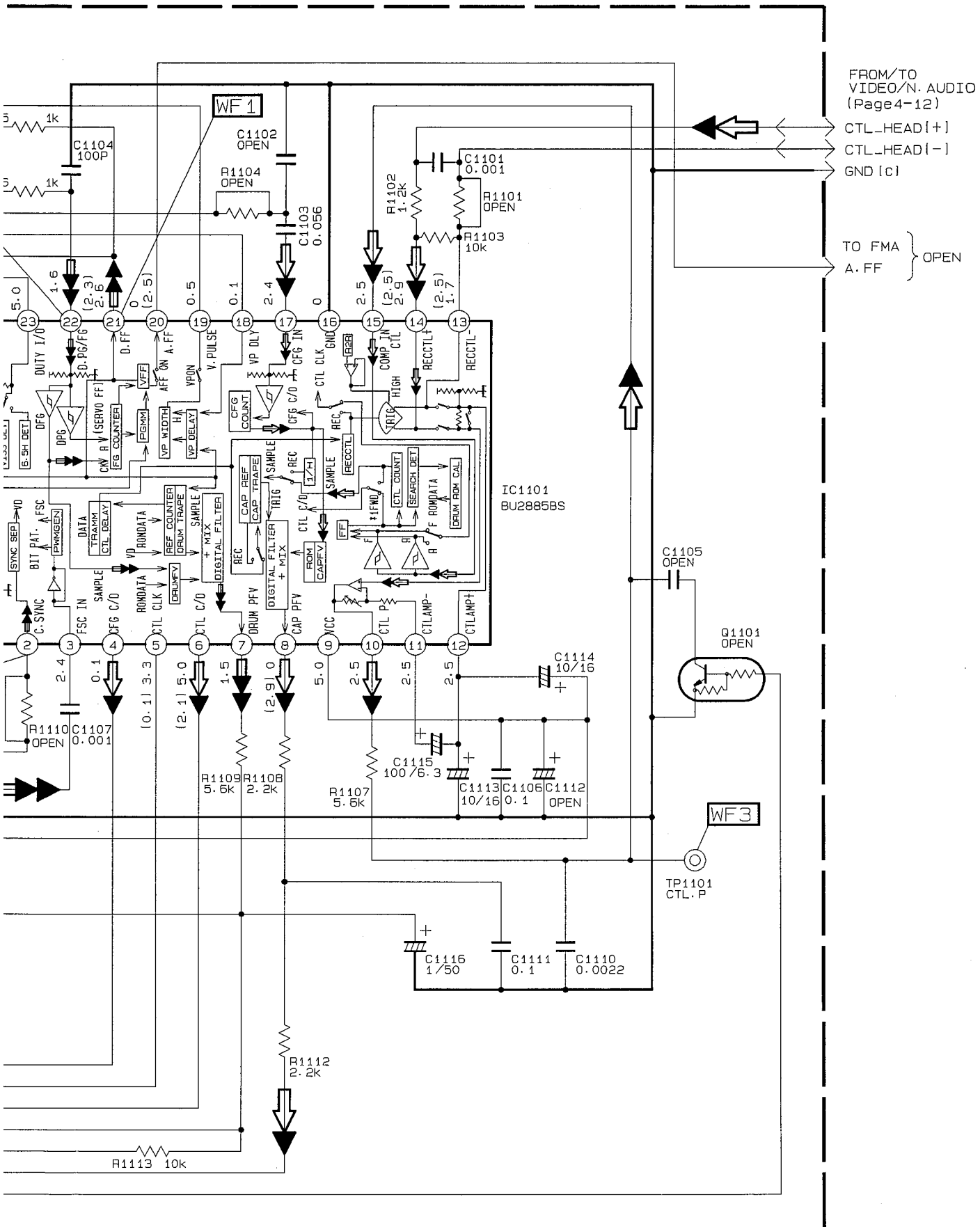
4.8 SWITCHING REGULATOR SCHMATIC DIAGRAM




D969 AU01Z
C951 100/10
R970 22 1W
DC[+]
-28V
DC[-]
TO SYSCON (Page4-15)
C961 0.01 /50
R977 OPEN
D965 AU01Z
D966 AU01Z
R955 2.2K 2W
D957 OPEN
BT2
SW12V
SW5V
GND
RF5V
TO TUNER (Page4-20)
TP901 SW5V
TPGND
D952 OPEN
C959 22 /63
L951 33μ
GND
GND[M]
AL5.8V
SW5V
TO SYSCON (Page4-15)
CP
CP901 N20
Q951 2SD1913(AS)
L954 SHORT
D955 RD15ES -T1B1
C954 820 /16
C953 680 /10
C971 220 /10
D954 OPEN
D960
D958 RD30ES -T1B1
C960 22 /50
R957 100 1/4W
FR
L953 33μ
R951 470
C962 0.001 /50
R958 470
R959 1K
D963
Q952 2SC4081(AS)
R962 0Ω
D962 RD5.1US82
R960 470
R961 10K
C963 100 /10
Q955 2SD2144S (UVM)
R953 510
R954 470
C964 22 /16
C965 100 /10
AUDIO(-)
RF5V
GND
SW5V
SW12V
AL12V
TO FMA OPEN
GND
SW5V
TO ON SCREEN (Page4-23)
CP904 SHORT
R971 200
M12V
SW12V
M12V/17V
P.CTL[L]
FROM/TO SYSCON (Page4-15)
C969 0.47 /50
R952 2.21K
Q959 2SD1450S,T
Q953 2SC3616(MLK)
CP902 N25
R972 220
R976 0
C970 100 /16
Q954 DTA114EU
R965 470
C967 OPEN
R966 47K
C966 10 /50
B953 0Ω
Q958 2SC1740S(RS)
R954 1.2K
D956 RD6.2ES -T1B3
R953 3.48K
C972 330 /16
D971
C968 47/16
OPEN
GROUND POINT FOR SECONDARY VOLTAGE
M12V
SW5V
GND
GND[M]
TO SERVO (Page4-21)
TO R.LOCA.
AL12V (OPEN)
SW5V
SW12V
TO TUNER (Page4-19)
SW5V
SW12V
TO VIDEO/N.AUDIO (Page4-11)

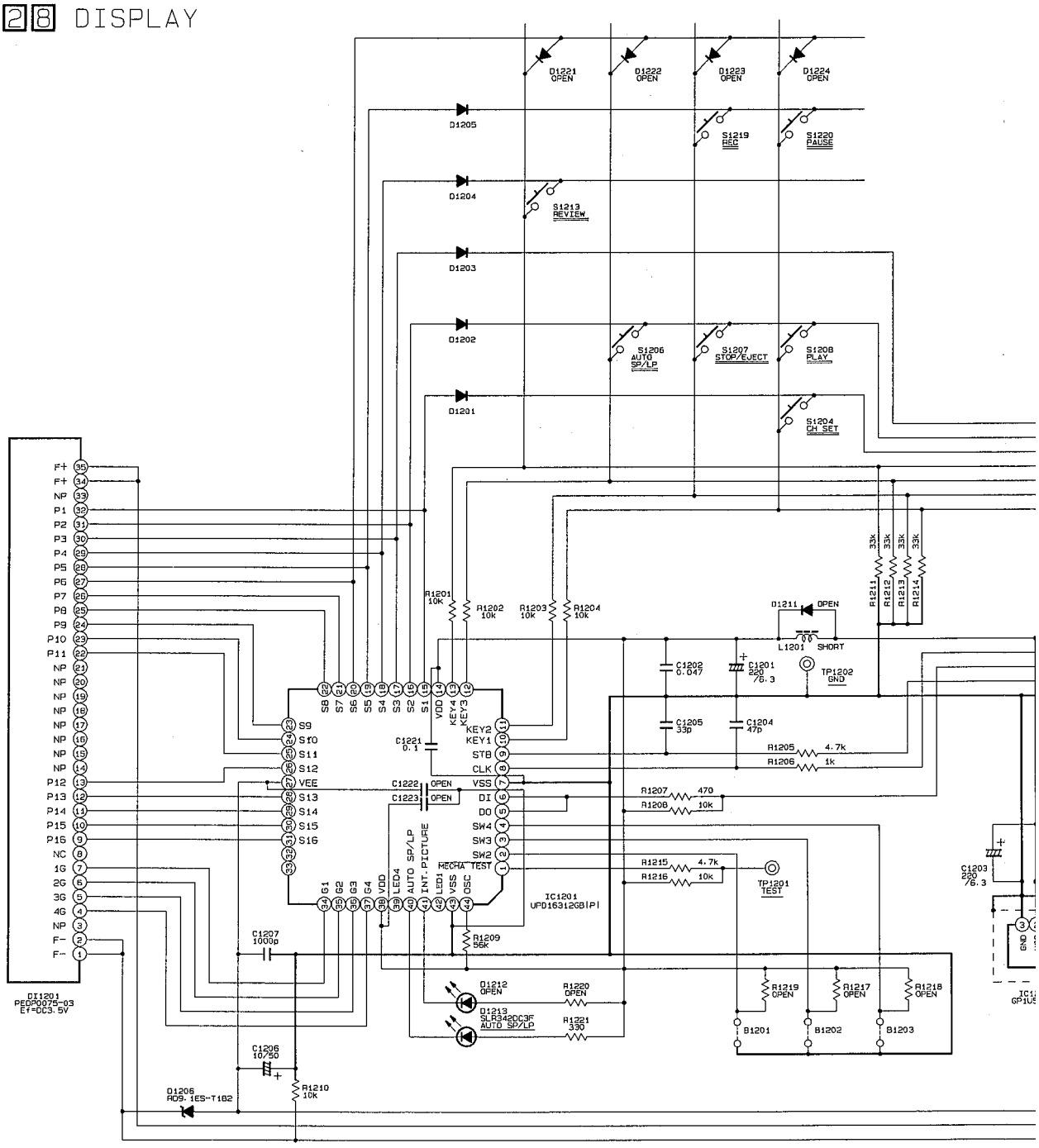
4.10 SERVO SCHEMATIC DIAGRAM



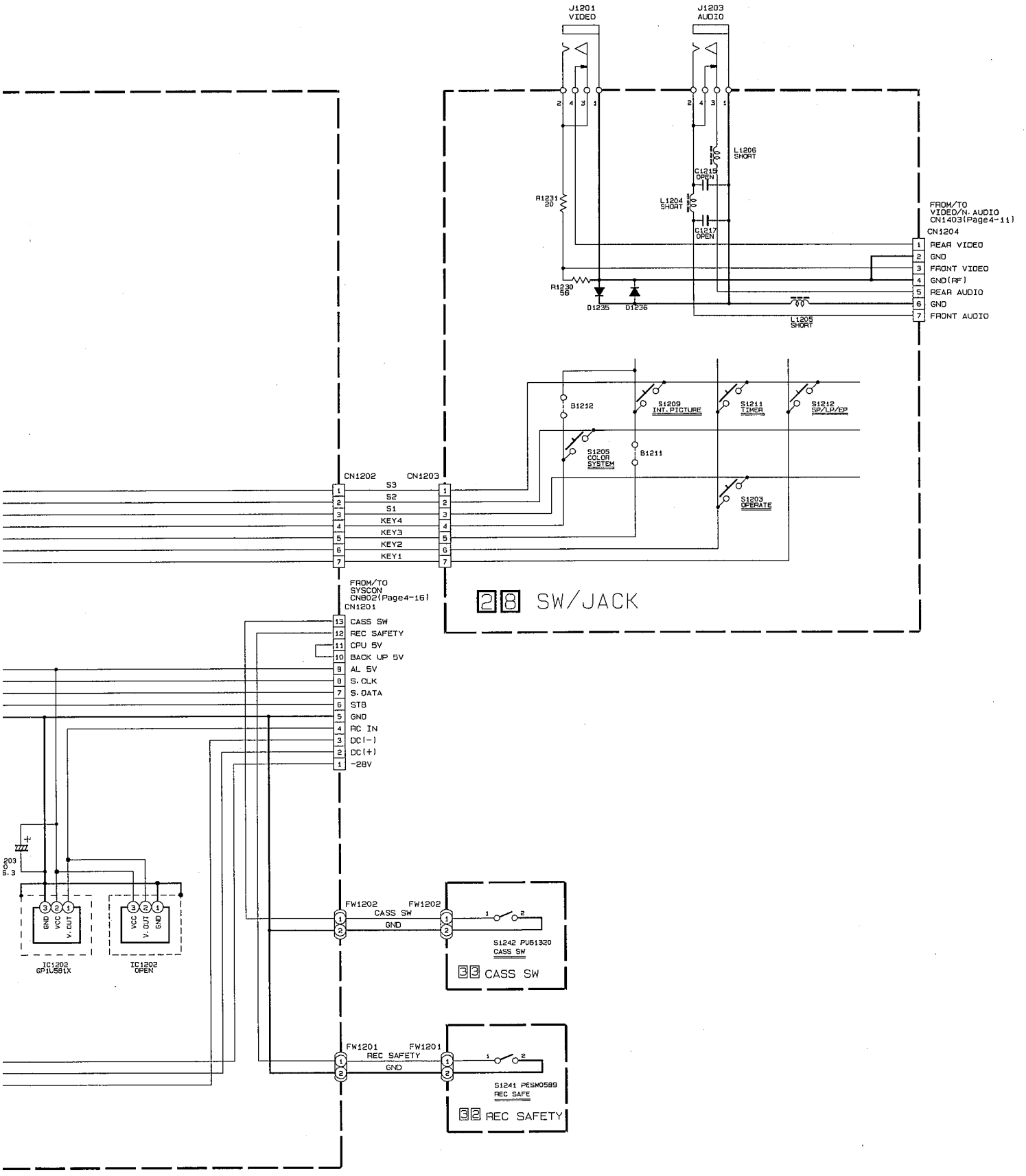


NOTE : For SERVO waveforms, please refer to page4-25.

28 DISPLAY


D1221 OPEN
D1222 OPEN
D1223 OPEN
D1224 OPEN
D1205
D1204
D1203
D1202
D1201
S1219 REC
S1220 PAUSE
S1213 REVIEW
S1206 AUTO SP/LP
S1207 STOP/EJECT
S1208 PLAY
S1204 CH SET
D1211 OPEN
L1201 0Ω SHORT
TP1202 GND
TP1201 TEST
IC1201 UPD16312GB(P)
DI1201 PEDP0075-03 EF-DC3.5V
D1206 RDS. 1ES-T182
D1212 OPEN
D1213 SLR342DC3F AUTO SP/LP
B1201
B1202
B1203

R-J439EE)

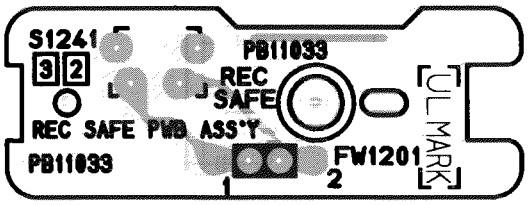

J1201
VIDEO
J1203
AUDIO
L1206
SHORT
C1215
OPEN
R1231
20
L1204
SHORT
C1217
OPEN
R1230
56
D1235
D1236
L1205
SHORT
FROM/TO
VIDEO/N.AUDIO
CN1403(Page4-11)
CN1204
REAR VIDEO
GND
FRONT VIDEO
GND(RF)
REAR AUDIO
GND
FRONT AUDIO
B1212
S1209
INT.PICTURE
S1211
TIMER
S1212
SP/LP/EP
S1205
COLOR
SYSTEM
B1211
S1203
OPERATE
CN1202
CN1203
S3
S2
S1
KEY4
KEY3
KEY2
KEY1
28 SW/JACK
FROM/TO
SYSCON
CN802(Page4-16)
CN1201
CASS SW
REC SAFETY
CPU 5V
BACK UP 5V
AL 5V
S.CLK
S.DATA
STB
GND
AC IN
DC(-)
DC(+)
-28V
GND
VCC
V.OUT
IC1202
GP1U581X
IC1202
OPEN
FW1202
CASS SW
GND
S1242 PV61320
CASS SW
33 CASS SW
FW1201
REC SAFETY
GND
S1241 PESW0589
REC SAFE
32 REC SAFETY

4.14 DISPLAY, SW/JACK, REC SAFETY AND CASSETTE SW CIRCUIT BOARDS (for HR-J439EE)

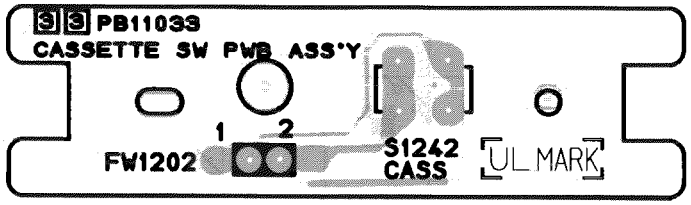
COMPONENT PARTS L(

REF.No.	LOCATION		
CAPACITOR			
C1215	A	D	2A
C1217	A	D	2A
CONNECTOR			
CN1203	A	D	1A
CN1204	A	D	2C
DIODE			
D1235	A	D	3A
D1236	A	D	3A
JACK			
J1201	A	D	3A
J1203	A	D	2A
COIL			
L1204	A	D	2A
L1205	A	D	2B
L1206	A	D	2B

-REC SAFETY-



-CASSETTE SW-



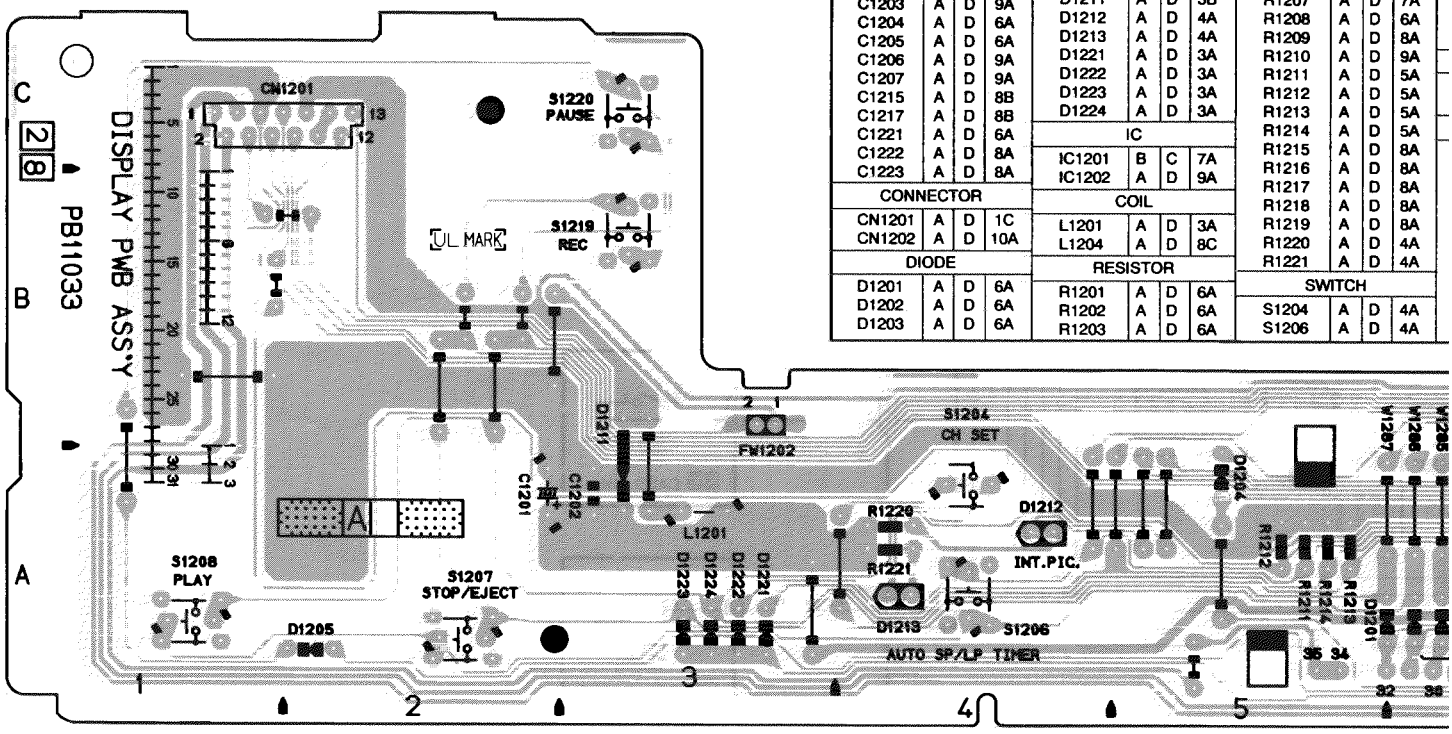
-DISPLAY-

COMPONENT PARTS LOCATION GUIDE <DISPLAY PWB>

REF.No.	LOCATION		
CAPACITOR			
C1201	A	D	2A
C1202	A	D	3A
C1203	A	D	9A
C1204	A	D	6A
C1205	A	D	6A
C1206	A	D	9A
C1207	A	D	9A
C1215	A	D	8B
C1217	A	D	8B
C1221	A	D	6A
C1222	A	D	8A
C1223	A	D	8A
CONNECTOR			
CN1201	A	D	1C
CN1202	A	D	10A
DIODE			
D1201	A	D	6A
D1202	A	D	6A
D1203	A	D	6A

REF.No.	LOCATION		
D1204	A	D	5A
D1205	A	D	2A
D1206	A	D	9A
D1211	A	D	3B
D1212	A	D	4A
D1213	A	D	4A
D1221	A	D	3A
D1222	A	D	3A
D1223	A	D	3A
D1224	A	D	3A
IC			
IC1201	B	C	7A
IC1202	A	D	9A
COIL			
L1201	A	D	3A
L1204	A	D	8C
RESISTOR			
R1201	A	D	6A
R1202	A	D	6A
R1203	A	D	6A

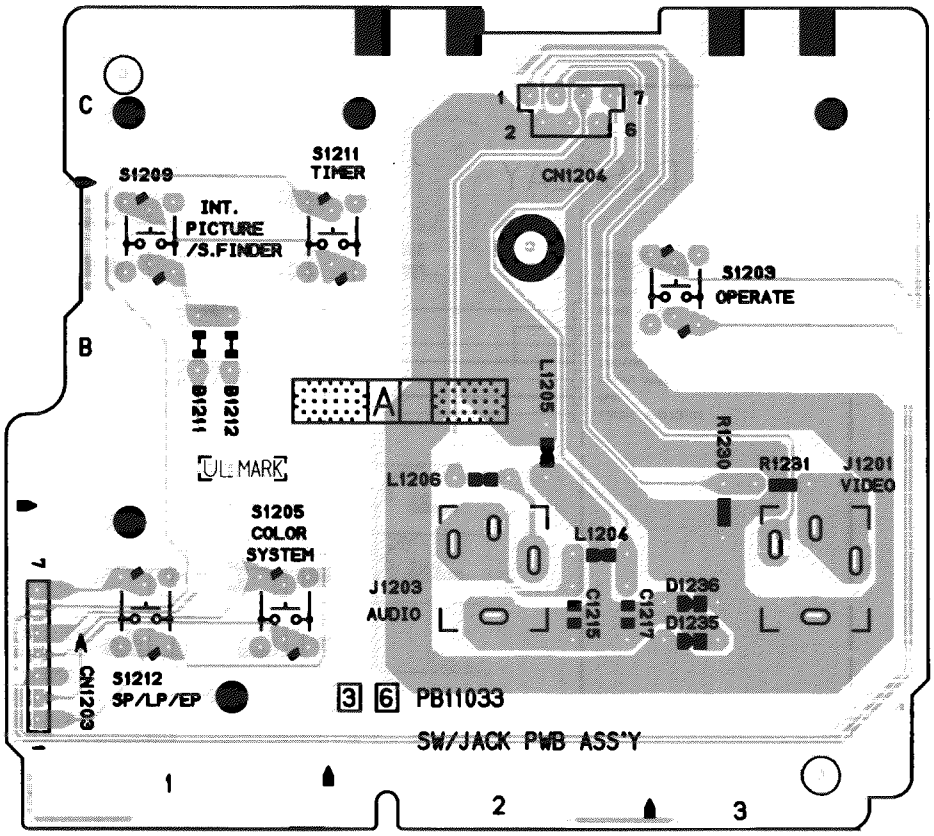
REF.No.	LOCATION		
R1204	A	D	6A
R1205	A	D	6A
R1206	A	D	6A
R1207	A	D	7A
R1208	A	D	6A
R1209	A	D	8A
R1210	A	D	9A
R1211	A	D	5A
R1212	A	D	5A
R1213	A	D	5A
R1214	A	D	5A
R1215	A	D	8A
R1216	A	D	8A
R1217	A	D	8A
R1218	A	D	8A
R1219	A	D	8A
R1220	A	D	4A
R1221	A	D	4A
SWITCH			
S1204	A	D	4A
S1206	A	D	4A



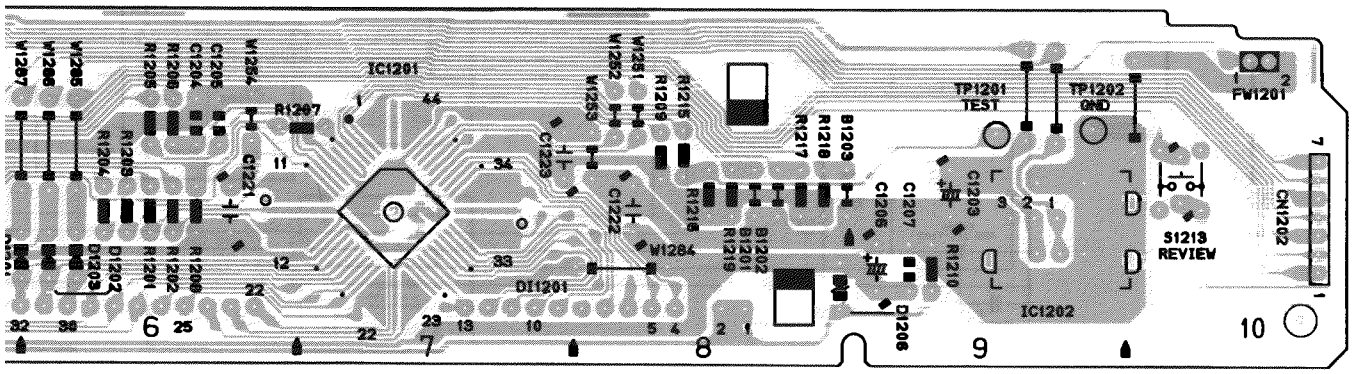
-SW/JACK-

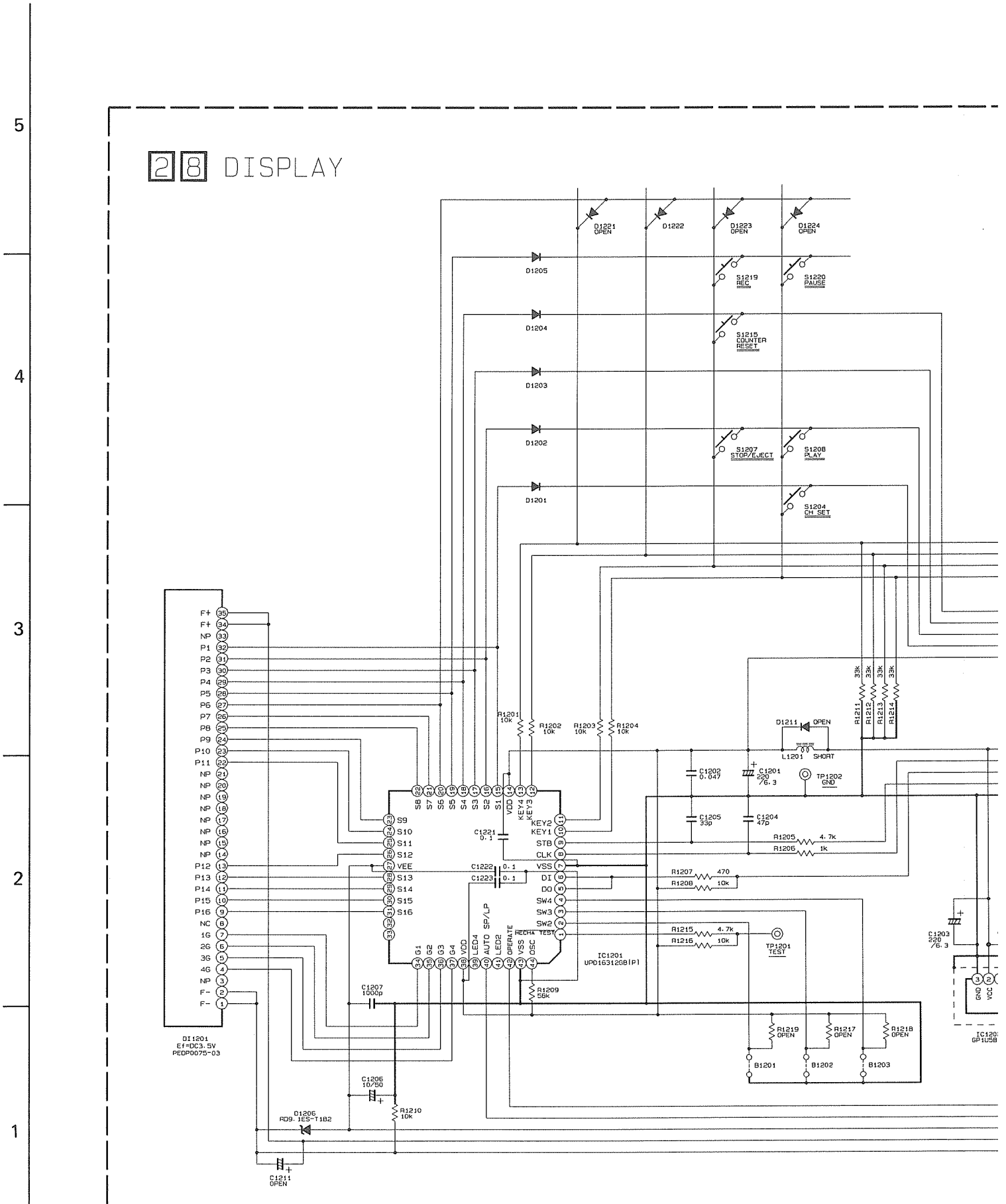
PARTS LOCATION GUIDE <SW/JACK PWB>

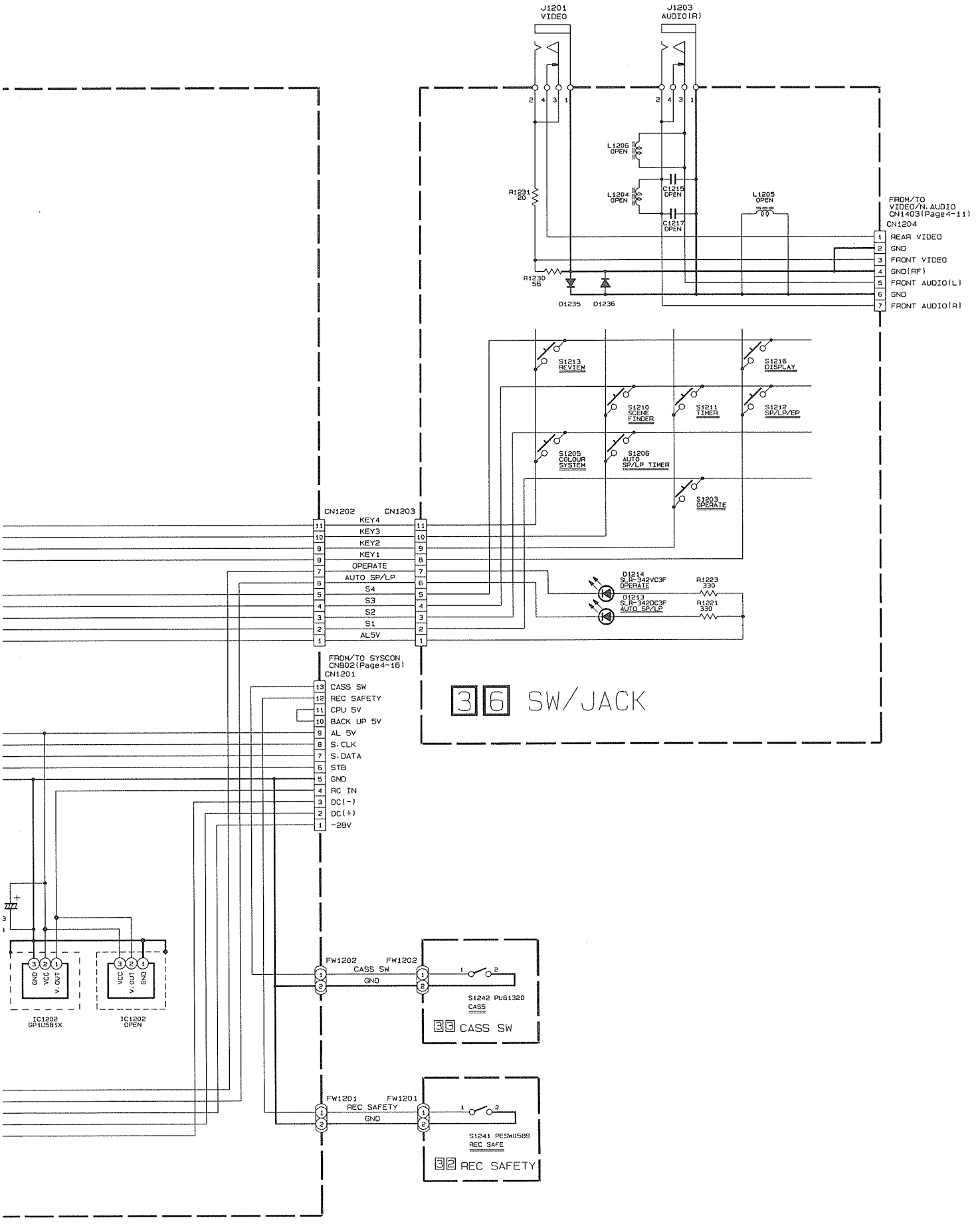
ATION	REF.No.	LOCATION
	RESISTOR	
D 2A	R1230	A D 3A
D 2A	R1231	A D 3B
	SWITCH	
D 1A	S1203	A D 3B
D 2C	S1205	A D 1A
	S1209	A D 1B
D 3A	S1211	A D 2B
D 3A	S1212	A D 1A
D 3A		
D 2A		
D 2A		
D 2B		
D 2B		



ATION	REF.No.	LOCATION
D 6A	S1207	A D 2A
D 6A	S1208	A D 1A
D 6A	S1213	A D 10A
D 7A	S1219	A D 3B
D 6A	S1220	A D 3C
D 8A	S1242	A D 4B
D 9A	TEST POINT	
D 5A	TP1201	A D 9A
D 5A	TP1202	A D 9A
D 5A	OTHERS	
D 8A	DI1201	A D 7A
D 8A	FW1201	A D 10B
D 8A	FW1202	A D 3B
D 8A	FW1202	A D 4B
D 4A		
D 4A		
D 4A		
D 4A		

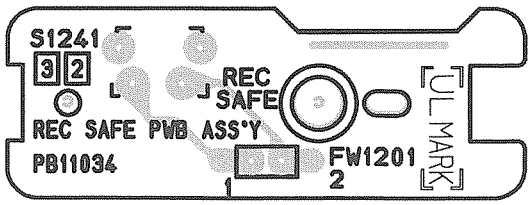



28 DISPLAY
D1221 OPEN
D1222
D1223 OPEN
D1224 OPEN
D1205
D1204
D1203
D1202
D1201
S1219 REC
S1220 PAUSE
S1215 COUNTER RESET
S1207 STOP/EJECT
S1208 PLAY
S1204 CH SET
R1201 10k
R1202 10k
R1203 10k
R1204 10k
R1211 33k
R1212 33k
R1213 33k
R1214 33k
D1211 OPEN
L1201 SHORT
C1202 0.047
C1201 220 /6.3
TP1202 GND
C1205 33p
C1204 47p
R1205 4.7k
R1206 1k
C1221 0.1
C1222 0.1
C1223 0.1
R1207 470
R1208 10k
R1215 4.7k
R1216 10k
TP1201 TEST
IC1201 UPD16312GB(P)
C1207 1000p
R1209 56k
C1206 10/50
R1210 10k
D1206 RD9.1ES-T1B2
C1211 OPEN
R1219 OPEN
R1217 OPEN
R1218 OPEN
B1201
B1202
B1203
DI1201 Ef=DC3.5V PEDP0075-03
C1203 220 /6.3
IC120 GP1US8
GND
VCC


J1201
VIDEO
J1203
AUDIO(R)
L1206
OPEN
L1204
OPEN
C1215
OPEN
C1217
OPEN
L1205
OPEN
R1231
20
R1230
56
D1235
D1236
FROM/TO
VIDEO/N.AUDIO
CN1403(Page4-11)
CN1204
REAR VIDEO
GND
FRONT VIDEO
GND(RF)
FRONT AUDIO(L)
GND
FRONT AUDIO(R)
S1213
REVIEW
S1216
DISPLAY
S1210
SCENE
FINDER
S1211
TIMER
S1212
SP/LP/EP
S1205
COLOUR
SYSTEM
S1206
AUTO
SP/LP TIMER
S1203
OPERATE
CN1202
CN1203
KEY4
KEY3
KEY2
KEY1
OPERATE
AUTO SP/LP
S4
S3
S2
S1
AL5V
D1214
SLR-342VC3F
OPERATE
D1213
SLR-342DC3F
AUTO SP/LP
R1223
330
R1221
330
FROM/TO SYSCON
CN802(Page4-16)
CN1201
CASS SW
REC SAFETY
CPU 5V
BACK UP 5V
AL 5V
S.CLK
S.DATA
STB
GND
RC IN
DC(-)
DC(+)
-28V
36 SW/JACK
GND
VCC
V.OUT
IC1202
GP1US81X
IC1202
OPEN
FW1202
CASS SW
GND
S1242 PU61320
CASS
33 CASS SW
FW1201
REC SAFETY
GND
S1241 PESW0589
REC SAFE
32 REC SAFETY

4.14 DISPLAY, SW/JACK, REC SAFETY AND CASSETTE SW CIRCUIT BOARDS (for HR-E539EE)

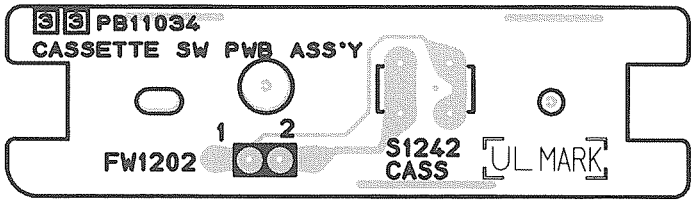
-REC SAFETY-



COMPONENT P

REF.No.	LOC.
CAPACITO	
C1215	A
C1217	A
CONNECTO	
CN1203	A
CN1204	A
DIODE	
D1213	A
D1214	A
D1235	A
D1236	A
COIL	
L1204	A
L1205	A
L1206	A

-CASSETTE SW-



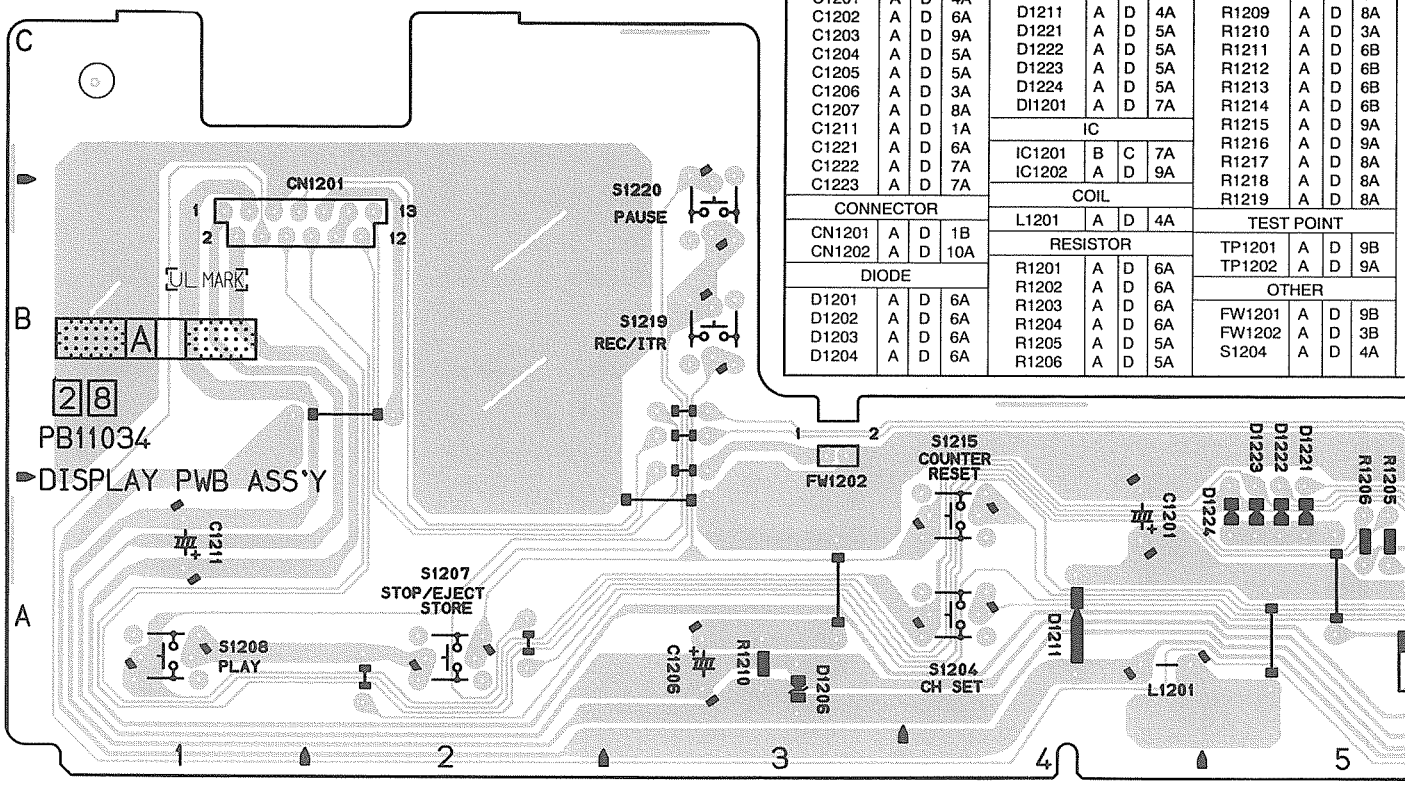
-DISPLAY-

COMPONENT PARTS LOCATION GUIDE <DISPLAY PWB>

REF.No.	LOCATION		
CAPACITOR			
C1201	A	D	4A
C1202	A	D	6A
C1203	A	D	9A
C1204	A	D	5A
C1205	A	D	5A
C1206	A	D	3A
C1207	A	D	8A
C1211	A	D	1A
C1221	A	D	6A
C1222	A	D	7A
C1223	A	D	7A
CONNECTOR			
CN1201	A	D	1B
CN1202	A	D	10A
DIODE			
D1201	A	D	6A
D1202	A	D	6A
D1203	A	D	6A
D1204	A	D	6A

REF.No.	LOCATION		
D1205	A	D	6A
D1206	A	D	3A
D1211	A	D	4A
D1221	A	D	5A
D1222	A	D	5A
D1223	A	D	5A
D1224	A	D	5A
DI1201	A	D	7A
IC			
IC1201	B	C	7A
IC1202	A	D	9A
COIL			
L1201	A	D	4A
RESISTOR			
R1201	A	D	6A
R1202	A	D	6A
R1203	A	D	6A
R1204	A	D	6A
R1205	A	D	5A
R1206	A	D	5A

REF.No.	LOCATION		
R1207	A	D	6B
R1208	A	D	6A
R1209	A	D	8A
R1210	A	D	3A
R1211	A	D	6B
R1212	A	D	6B
R1213	A	D	6B
R1214	A	D	6B
R1215	A	D	9A
R1216	A	D	9A
R1217	A	D	8A
R1218	A	D	8A
R1219	A	D	8A
TEST POINT			
TP1201	A	D	9B
TP1202	A	D	9A
OTHER			
FW1201	A	D	9B
FW1202	A	D	3B
S1204	A	D	4A



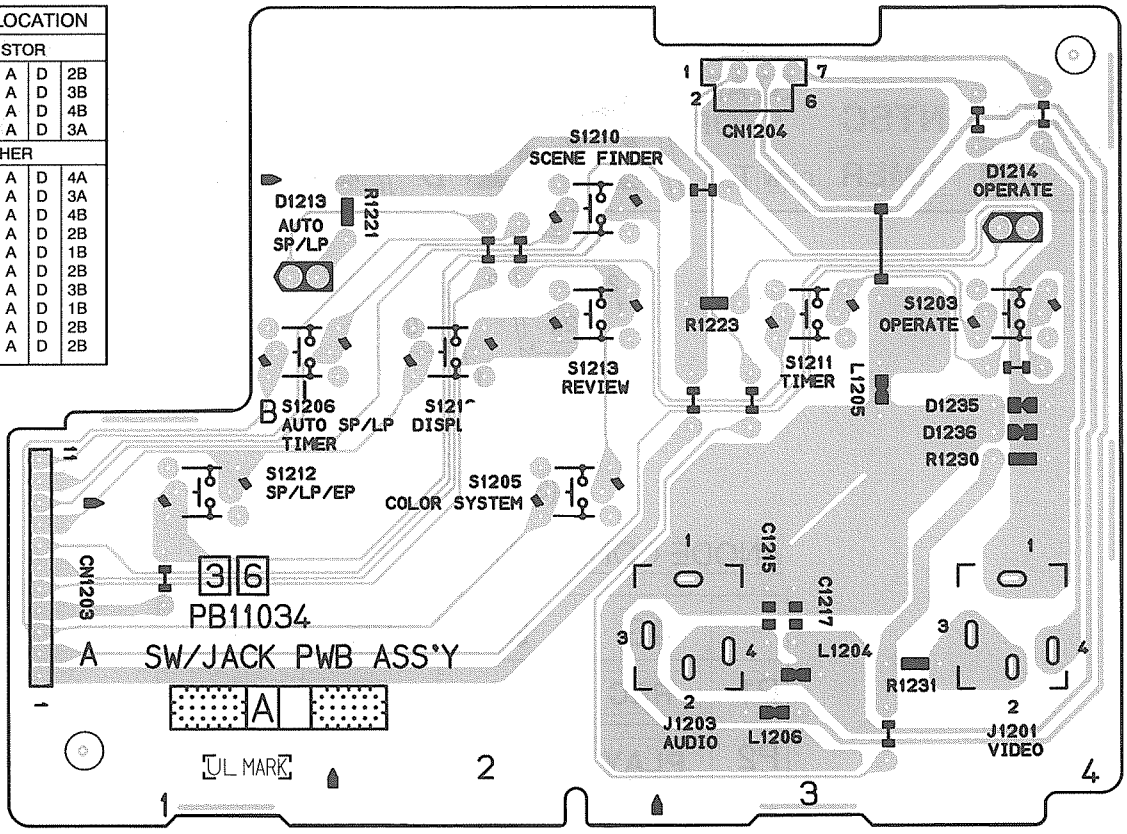
Ξ)

-SW/JACK-

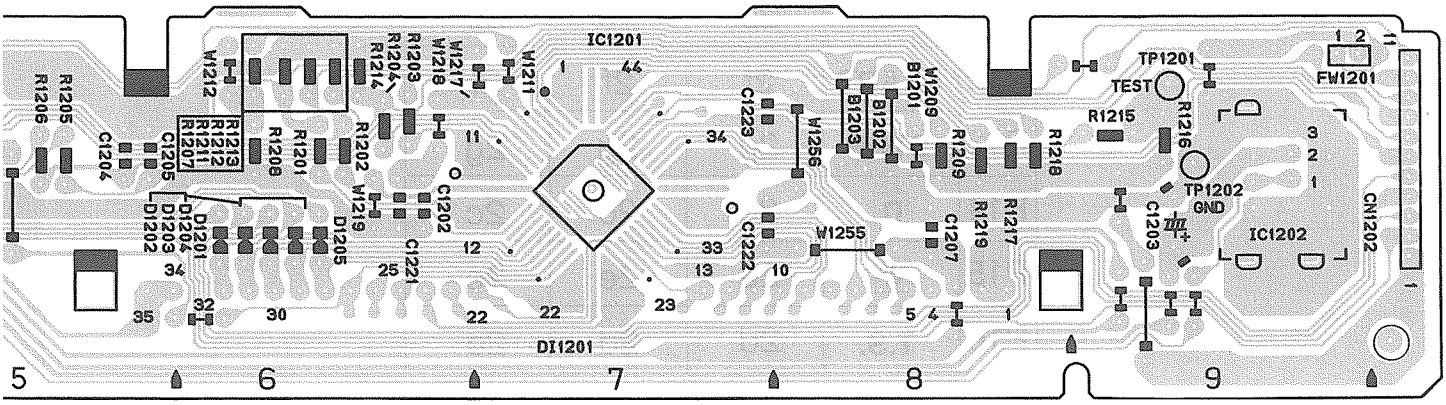
'ONENT PARTS LOCATION GUIDE < SW/JACK PWB >

No.	LOCATION		
CAPACITOR			
:15	A	D	3A
:17	A	D	3A
CONNECTOR			
1203	A	D	1A
1204	A	D	3C
DIODE			
:13	A	D	1B
:14	A	D	4B
:35	A	D	4B
:36	A	D	4B
COIL			
04	A	D	3A
05	A	D	3B
06	A	D	3A

REF.No.	LOCATION		
RESISTOR			
R1221	A	D	2B
R1223	A	D	3B
R1230	A	D	4B
R1231	A	D	3A
OTHER			
J1201	A	D	4A
J1203	A	D	3A
S1203	A	D	4B
S1205	A	D	2B
S1206	A	D	1B
S1210	A	D	2B
S1211	A	D	3B
S1212	A	D	1B
S1213	A	D	2B
S1216	A	D	2B

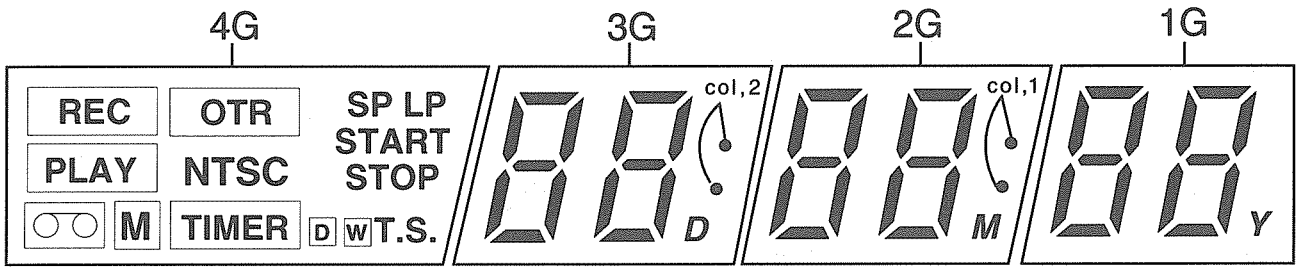


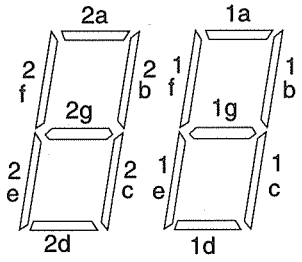
ATION		REF.No.	LOCATION		
D	6B	S1207	A	D	2A
D	6A	S1208	A	D	1A
D	8A	S1215	A	D	4A
D	3A	S1219	A	D	3B
D	6B	S1220	A	D	3B
D	6B				
D	6B				
D	6B				
D	9A				
D	9A				
D	8A				
D	8A				
D	8A				
NT					
D	9B				
D	9A				
D	9B				
D	3B				
D	4A				



4.15 FDP GRID ASSIGNMENT AND ANODE CONNECTION

GRID ASSIGNMENT





(3G～1G)

ANODE CONNECTION

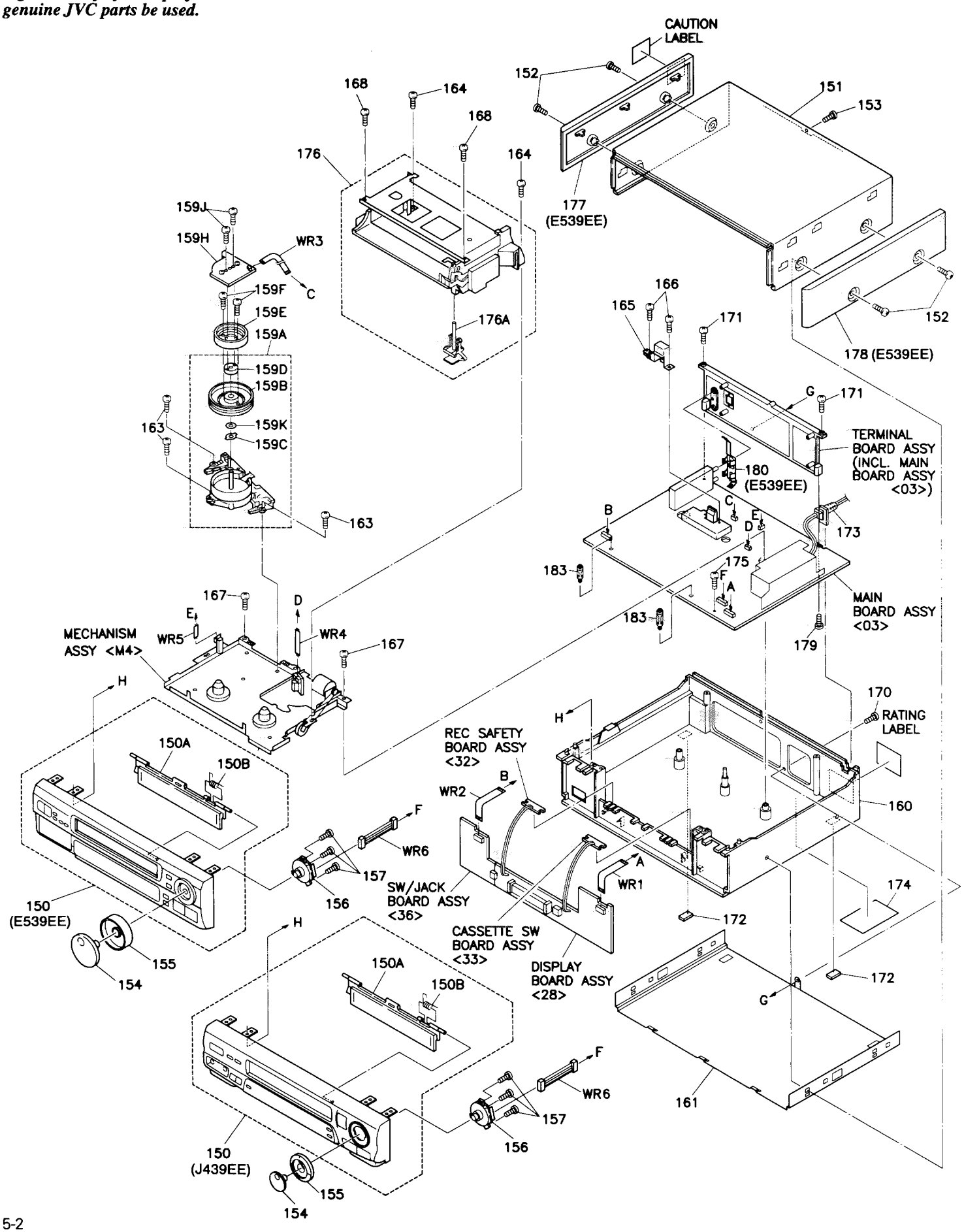
	4G	3G	2G	1G
P1	REC	1a	1a	1a
P2	PLAY	1b	1b	1b
P3	○○	1f	1f	1f
P4	M	1g	1g	1g
P5	OTR	1c	1c	1c
P6	NTSC	1e	1e	1e
P7	TIMER	1d	1d	1d
P8	—	col2	col1	—
P9	—	D	M	Y
P10	SP	2a	2a	2a
P11	LP	2b	2b	2b
P12	START	2f	2f	2f
P13	STOP	2g	2g	2g
P14	D	2c	2c	2c
P15	W	2e	2e	2e
P16	T.S.	2d	2d	2d

5.2 CABINET AND CHASSIS ASSEMBLY <M2>

SECTION 5
PARTS LIST

BEWARE OF BOGUS PARTS

Parts that do not meet specifications may cause trouble in regard to safety and performance. We recommend that genuine JVC parts be used.



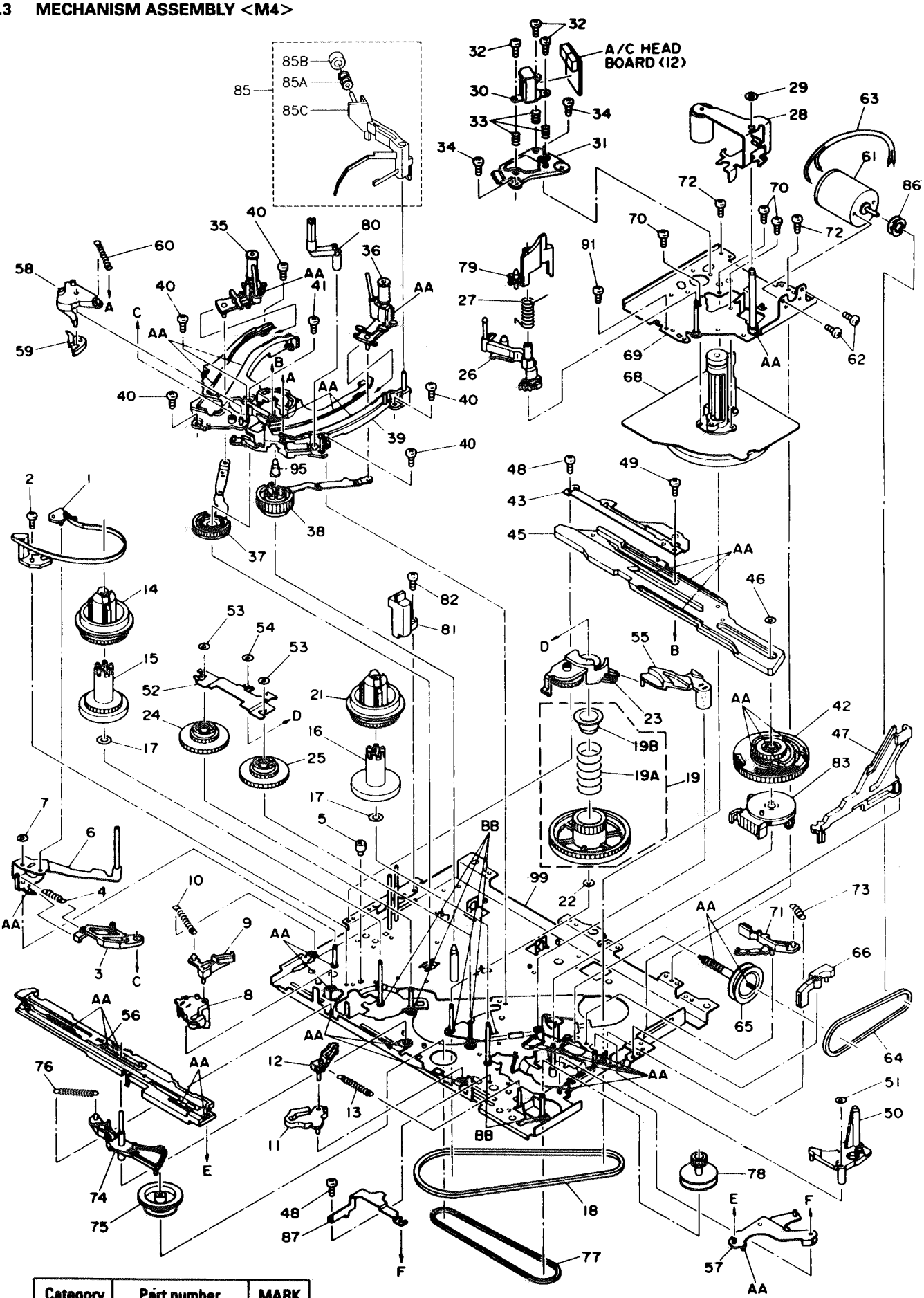
#⚠	REF No.	PART No.	PART NAME, DESCRIPTION

****

CABINET AND CHASSIS ASSEMBLY <M2>

	150	PQ11802AQ	FRONT PANEL ASSEMBLY,E539EE
		PQ11906W	FRONT PANEL ASSEMBLY,J439EE
	150A	PQ21818-30	CASSETTE DOOR,E539EE
		PQ21915-16	CASSETTE DOOR,J439EE
	150B	PQ46448	TORSION SPRING
⚠	151	PQ11676-7	TOP COVER,J439EE
		PQ11676-31	TOP COVER,E539EE
	152	PQ43930	SPECIAL SCREW,X4,E539EE
		SDSF3010M	SCREW,X4 TOP COVER,J439EE
	153	SDSF3010M	SCREW
	154	PQ35247-5	KNOB(JOG),E539EE
		PQ35472	KNOB(JOG),J439EE
	155	PQ35295-5	KNOB(SHUTTLE),E539EE
		PQ35271	KNOB(SHUTTLE),J439EE
	156	PEME0757-03	JOG SHUTTLE ASSEMBLY
	157	SDSF2608Z	SCREW,X3 JOG
	159A	PDM2282K	DRUM SUB ASSEMBLY
	159B	PDM3403K	UPPER DRUM ASSEMBLY
	159C	PDM4440A	BRUSH ASSEMBLY
	159D	PDM4345A	COLLAR ASSEMBLY
	159E	PDZ0141-2	ROTOR ASSEMBLY
	159F	SPSH2660Z	SCREW,X2
⚠	159H	PDZ0141-1-2	STATOR ASSEMBLY
	159J	SPSP2606Z	SCREW,X2
	159K	PDM4050-10	WASHER
⚠	160	PQ11666-3-14	BOTTOM CHASSIS
⚠	161	PQ11668-2	BOTTOM COVER
	163	SPST2608Z	SCREW,X3 DRUM
	164	SPST2606Z	SCREW,X2 CASS HOUS ASSY
	165	PQ35385-1-1	SHIELD COVER,PRE/REC
	166	SDST2606Z	SCREW,X2 PRE/REC
	167	SDSF4012Z	SCREW,X2 MECH
	168	SDSF3010Z	SCREW,X2 CASS HOUS ASSY
	170	SDSF3010M	SCREW,TERMINAL
	171	SDSF3010Z	SCREW,X2 TERMINAL
	172	PQ43013-3	FOOT,X2
⚠	173	QMP4A10-170	POWER CORD
⚠	174	PQ46485	SPACER(SAFETY),BOTTOM CHASSIS
	175	SDSF3010Z	SCREW,MAIN BOARD
	176	PUS29724B-1	CASSETTE HOUSING ASSEMBLY
	176A	PQ46359	CASSETTE SWITCH PIN
	177	PQ11842	SIDE PANEL(L),E539EE
	178	PQ11843	SIDE PANEL(R),E539EE
	179	SDSF3008Z	SCREW,MAIN
	180	PQ21623-1-2	EARTH PLATE(RF),TUNER,E539EE
	183	PEME0947-01-01	SPACER,X2 MECHA
	WR1	PW30802-1314	WIRE, DISPLAY/SWITCH
	WR2	PW30802-0714	WIRE, SW/JACK
	WR3	PW30803-0414	WIRE, DRUM
	WR4	PW30101-C0HH887	WIRE, A/C HEAD
	WR5	PW30701-32AAYY	WIRE, FE HEAD
	WR6	PW30218-0831613	WIRE, JOG

5.3 MECHANISM ASSEMBLY <M4>



Category	Part number	MARK
Grease	KYODO-SH-P	AA
Oil	COSMO-HV56	BB

NOTE: The section marked in AA and BB indicate lubrication and greasing areas.

MECHANISM ASSEMBLY <M4>

#⚠ REF No.	PART No.	PART NAME, DESCRIPTION
1	PQ46298A-5	TENSION BAND ASSEMBLY
2	SDST2608Z	SCREW
3	PQ35012-1-5	TENSION ARM LEVER
4	PQM30001-385109	TENSION SPRING
5	PQ46302-1-3	ADJUST PIN
6	PQ46303B-8	TENSION ARM ASSEMBLY
7	PQM30017-47	SLIT WASHER
8	PQ46305B-3	MAIN BRAKE ASSEMBLY (SUPPLY)
9	PQ46306A-3	SUB BRAKE ASSEMBLY (SUPPLY)
10	PQM30001-393	TENSION SPRING
11	PQ46308A-5	MAIN BRAKE ASSEMBLY (TAKE UP)
12	PQ46309A-4	SUB BRAKE ASSEMBLY (TAKE UP)
13	PQM30001-389102	TENSION SPRING
14	PQ46535A-2	REEL DISK ASSEMBLY(SUPPLY)
15	PQ35014-1-1	SLIT DISK (SUPPLY)
16	PQ35015-1-1	SLIT DISK (TAKE UP)
17	PQM30018-69	SPACER,X2
18	PQM30003-38	BELT(CAPSTAN)
19	PQ46497B-2	PULLEY ASSEMBLY
19A	PQM30002-233	COMPRESION SPRING
19B	PQ46311	SPRING CAP
21	PQ46498A-3	REEL ASSEMBLY (TAKE UP)
22	PQM30018-69	SPACER
23	PQ46312B-9	IDLER ARM ASSEMBLY
24	PQ46316A-4	CLUTCH UNIT (SUPPLY)
25	PQ46323A-1	CLUTCH UNIT (TAKE UP)
26	PQ46325B-9	GUIDE ARM ASSEMBLY
27	PQ46326-2	TORSION SPRING
28	PQ46327A-4	PINCH ROLLER ARM ASSEMBLY
29	PQM30017-24	SLIT WASHER,P LEVER
30	PEHE0182	AUDIO CONTROL HEAD
31	PQ35206-1-3	HEAD BASE
32	PQ43687A	SCREW,X3
33	PQM30002-192	COMPRESSION SPRING,X3
34	SDSP2604Z	SCREW,X2
35	PQ46595A-5	POLE BASE ASSEMBLY (SUPPLY)
36	PQ46597A	POLE BASE ASSEMBLY (TAKE UP)
37	PQ46332A-3	LOADING ARM ASSEMBLY (SUPPLY)
38	PQ46337C	LOADING ARM ASSEMBLY (TAKE UP)
39	PQ11657-1-9	GUIDE RAIL
40	SPST2608Z	SCREW,X5
41	SDST2612Z	SCREW
42	PQ21684-1-3	CONTROL CAM
43	PQ35138-1-2	CONTROL BRACKET
45	PQ11658-1-15	CONTROL PLATE
46	PQM30017-8	SLIT WASHER
47	PQ21685-2-9	PINCH PLATE
48	SPST2606Z	SCREW,X2
49	SPSF2608M	SCREW
50	PQ46342B-10	LEVER ASSEMBLY
51	PQM30017-8	SLIT WASHER
52	PQ35083-1-8	REEL BRACKET
53	PQM30017-51	SLIT WASHER,X2
54	Q03093-830	WASHER
55	PQ35026-1-7	IDLER LEVER
56	PQ11659-1-12	SLIDE PLATE
57	PQ46344A-2	CHANGE LEVER ASSEMBLY
58	PQ21686-1-3	TAKE UP LEVER
59	PQ46345-1-2	TAKE UP HEAD
60	PQM30001-387106	TENSION SPRING
⚠ 61	PU60628-3-2	LOADING MOTOR
62	SPSP3003Z	SCREW,X2
63	PW30101-80AJ632	WIRE
64	PQM30003-39	BELT
65	PQ46395B	WORM GEAR ASSEMBLY
66	PQ21699-1-2	WORM BEARING
⚠ 68	PU61487-2-3	CAPSTAN MOTOR
69	PQ46347F-16	SUB DECK ASSEMBLY
70	SPSG2608Z	SCREW,X3
71	PQ46356C-3	CAPSTAN BRAKE ASSEMBLY
72	SPST2606Z	SCREW,X2
73	PQM30001-384101	TENSION SPRING,CAPSTAN BRAKE
74	PQ46353A-2	CHANGE ARM ASSEMBLY
75	PQ46354	CHANGE GEAR
76	PQM30001-386	TENSION SPRING
77	PQM30003-40	BELT
78	PQ46355	CASSETTE GEAR
79	PQ35030-1-5	LID GUIDE
80	PQ21689-2	LED PRISM
81	PEHE0237	FULL ERASE HEAD
82	SDST2610Z	SCREW
83	PU61432-1-1	ROTARY ENCODER
85	PQ46436A-1	CLEANER ASSEMBLY
85A	PQ46418-1-2	CLEANER ROLLER
85B	PQ46419-1-2	CLEANER
85C	PQ35159-1-1	CLEANER ARM
86	PQ43546-1-2	MOTOR PULLEY
87	PQ35217-1-2	CONTROL BRACKET 2
91	SDSP2604Z	SCREW
95	PQ46767	GUIDE CAP
99	PQ21680H	MAIN DECK ASSEMBLY

[redacted]

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Printed in Japan
9611 (VP-V09C2/C3)